



BMES Student Chapter Development Report Guidelines

Overview

The BMES Chapter Development Report (CDR) is an essential tool for BMES student chapters to track and evaluate their progress on an annual basis. It serves as the official means for chapters to renew their charter and maintain national recognition.

Additionally, the CDR acts as a benchmark for BMES to recognize and reward chapters for their achievements in operations, activities, and programs. The guidelines below are designed to help chapters maximize their chances of earning the prestigious Outstanding Award(s):

- **Outstanding Achievement Award**
- **Commendable Achievement Award**
- **Outstanding Outreach Award**
- **Outstanding Mentoring Program Award**
- **Outstanding Chapter-Industry Program Award**
- **Outstanding Societal Impact Award**
- **Up and Coming New Student Chapter Award**
- **Outstanding High School Chapter Award**

We highly encourage chapters to submit CDRs as a comprehensive record of their ongoing efforts. Regularly updating your Chapter Development Report ensures that your chapter's records are accurate, current, and helps guide the leadership team by reflecting on the previous year's programs.

Submitting a CDR is a REQUIREMET, but chapters have the flexibility to decide how many sections (and, consequently, Outstanding Awards) they wish to submit for. Furthermore, each CDR provides space to include details for your chapter's one FREE BMES Student Membership as a reward for your chapter's commitment to maintaining annual compliance with the CDR.

There is no maximum page limit for your CDR submission, however, remain concise.

Breakdown of the Chapter Awards

Outstanding Achievement Award	This award is given in recognition of outstanding leadership and immeasurable growth. Chapters who demonstrate they lead the field in social activities, fundraising, mentorship, community outreach, and industry partnership will be considered for the student chapter Outstanding Achievement award.
Commendable Achievement Award	This award follows the Outstanding Achievement award and will go to the chapter who demonstrates they are second to only one; a chapter who has unlimited opportunities for growth and success and has demonstrated the ability to lead in many different facets.
Outstanding Outreach Program Award	This award will go to those chapters who demonstrate leadership in community outreach, service, and STEM volunteerism; winning chapters show the positive impact their programs have brought to the community.
Outstanding Mentoring Program Award	This award will go to those chapters who demonstrate leadership in mentorship among their chapter members; winning chapters provide a step-by-step guide on how their mentorship program was set up, how it was encouraged throughout the year, and the impact it had. Special consideration will be shown to those collegiate student chapters who mentor high school student chapters in a tangible way.
Outstanding Chapter Industry Program Award	This award will go to those chapters who demonstrate outstanding partnership with industries in their community; chapters who go above and beyond by creating joint programs with academic and industry leaders in the BME field in order to give their members a head start upon graduation.
Outstanding Societal Impact Award	This award will go to those chapters who endeavored to highlight and solve a real-world medical problem within their immediate community.
Up and Coming New Student Chapter Award	For new Student Chapters whose charter was approved within the same calendar year as their CDR submission.
Outstanding High School Student Chapter Award	For High School Student Chapters in recognition of outstanding leadership and immeasurable growth. High School Chapters who demonstrate that they lead the field in social activities, fundraising, mentorship, community outreach, and industry partnership will be considered for the student chapter Outstanding Achievement award.

CDR Format Requirements

The only **mandatory** page for submission is the first page, the Renewal Document. If you are applying for awards, it is recommended that you include all additional pages listed.

To ensure you receive the minimum point allocations for award consideration, your CDR must be formatted into sections as outlined below. Failure to include all required sections or adhere to the guidelines will result in the loss of points for those sections.

I. Renewal Document (Required)

- a. Faculty Advisors Information
 - i. Name (Current BMES Professional Membership Required)
 - ii. Email Address
- b. Ten core Student Members Information
 - i. Name of Ten Students (Current BMES Student Membership Required)
 - ii. Chapter Positions (if applicable)
- c. Student Chapter/Department Website Link
- d. One Free Student Membership Information (Only applicable if the Chapter meets the minimum requirements for renewal (Sections A, B)

II. Cover Page

- a. Year
- b. Contact Information of Submitting Party
- c. Minimum 200-Word CDR Summation

III. Cover Letter

- a. One-Page Chapter Summation from the Faculty Advisor

IV. Table of Contents

V. Administrative Report

- a. 200 Word Abstract
- b. Chapter Officer Information
- c. Membership Breakdown
- d. Chapter Meeting Dates and Agendas

VI. Treasury Report

- a. 200 Word Abstract
- b. Chapter Balance Sheet

VII. Chapter Activities

- a. Abstract of all Chapter Activities

VIII. Social or Other Activities

- a. 200 Word Abstract
- b. List of Social, Networking, or Other Chapter Activities
- c. Breakdown of Attendance and Cost

IX. Inter-Chapter Activities

- a. 200 Word Abstract
- b. List of any Chapter Activities Coinciding with another BMES Student Chapter
- c. Breakdown of Attendance and Cost

X. Outreach Activities

- a. 200 Word Abstract
- b. List of any Outreach Activities
- c. Breakdown of Attendance and Cost

XI. Mentoring Activities

- a. 200 Word Abstract
- b. List of any Mentoring Activities
- c. Breakdown of Attendance and Cost

XII. Industry and Professional Development Activities

- a. 200 Word Abstract
- b. List of any Industry or Professional Development Activities
- c. Breakdown of Attendance and Cost

XIII. Societal Impact Activities

- a. 200 Word Abstract
- b. List of any published, created, or working projects that provide a real-world solution to medical issues affecting those in their community.
- c. Breakdown of Attendance and Cost

XIV. National BMES Meeting

- a. Summation of Past Experiences or Future Expectations/Goals for Attending the Annual Meeting

XV. Future Direction

- a. Summation of Next Year's Chapter Goals
- b. Outline of Goal Achievement Strategy

CDR Format Requirements, In Detail**I. Renewal Page**

- a. Faculty Advisors Information
 - i. Name (Current BMES Professional Membership Required)
 - ii. Email Address
- b. Ten core Student Members Information
 - i. Name of Ten Students (Current BMES Student Membership Required)
 - ii. Chapter Positions (if applicable)
- c. Student Chapter/Department Website Link
- d. One Students Information for Free Membership with the Following:

New Membership or Renewal	Name	Email	Graduation Year	Chapter Position (if applicable)
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II. Cover Page

- a. Your report must include a cover page that contains the chapter name, year of submission, contact information for the corresponding authors as well as the faculty advisor (name, phone number, email address), and a 200-word summation highlighting your chapter's activities.

III. Cover Letter

- a. Your report must contain a one-page cover letter from your faculty advisor, giving an overview of operations and achievements. We recommend the focus be on both successes as well as areas where growth is necessary.

IV. Table of Contents**V. Administrative Report**

- a. Your administrative report must provide an abstract of the administrative report.
- b. Your administrative report must contain a list or diagram outlining the chapter leadership roles and responsibilities.
- c. Your administrative report must include a list or diagram outlining the total student membership, including a breakdown of how many are national BMES members.

d. Your report must include a list or diagram outlining the executive and general body meetings for the year, including dates and agenda.

VI. Treasury Report

- a.** Your treasury report must contain an abstract of the treasury report.
- b.** Your treasury report must contain a list or diagram outlining the chapter expenses breakdown, including withdrawals and deposits.
- c.** Your treasury report must contain information on fundraising events and funds (if any) provided by your University.

VII. Chapter Activities

a. Your chapter activities report must contain an abstract of chapter activities.

VIII. Social or Other Activities

This is any activity that is meant to provide fun, social engagement, or membership bonding.

- a. Your social activities report must contain an abstract of social activities.
- b. Your social activities report must contain informative information, such as; date(s), a brief description, cost and attendance breakdown, goals and outcomes, etc.
- c. Your social activities report should contain pictures or supplemental materials.

IX. Inter-Chapter Activities

This is an event that joins two BMES student chapters together.

- a.** Your inter-chapter activities report must contain an abstract of inter-chapter activities.
- b.** Your inter-chapter activities report must contain informative facts, such as; date(s), a brief description, cost and attendance breakdown, goals and outcomes, etc.
- C.** Your inter-chapter activities report should contain pictures or supplemental materials.

X. Outreach Activities

This is an event or program geared towards helping the community through volunteerism

Including this section will automatically render you eligible for the Outstanding Outreach Program Award

- a.** Your outreach activities report must contain an abstract of community outreach activities.
- b.** Your outreach activities report must contain informative facts, such as; date(s), a brief description, cost and attendance breakdown, goals and outcomes, etc.
- c.** Your outreach activities report should contain pictures or supplemental materials.

IV. Your Outreach Activities

MENTORING ACTIVITIES
This is an event or program created to mentor BMES student chapter members OR any event or program designed to mentor a BMES high school student chapter.

Including this section will automatically render you eligible for the Outstanding Mentoring Program Award

- a.** Your mentoring activities report must contain an abstract of your mentoring activities.
- b.** Your mentoring activities report must contact informative facts, such as; date(s), a brief description, cost and attendance breakdown, goals and outcomes, etc.
- c.** Your mentoring activities report should contain pictures or supplemental materials..
- d.** If you mentored a BMES high school student chapter, please include their chapter name and describe the events or ways your chapter has guided theirs.

XII. Industry or Professional Development Activities

This is an event or program designed to foster a partnership between the STEM industry and your chapter members OR any event or program designed to promote the professional growth of your members

Including this section will automatically render you eligible for the Outstanding Chapter Industry Program Award

- a.** Your industry or professional development activities report must contain an abstract of your industry activities.
- b.** Your industry or professional development activities report must contain informative facts, such as; date(s), a brief description, cost and attendance breakdown, goals and outcomes, etc.
- c.** Your industry or professional development activities should contain pictures or supplemental materials.

XIII. Societal Impact Activities

This is research, a completed medical device, or a project created to provide working medical solutions for members of their community.

Including this section will automatically render you eligible for the Outstanding Societal Impact Award

- a.** Your societal impact report must contain an abstract of the projects you have undertaken.
- b.** Your societal impact report must contain informative facts, such as date(s), a brief description, cost and attendance breakdown, goals and outcomes, etc.
- c.** Your societal impact report should contain pictures or supplemental materials.

XIV. National BMES Meeting

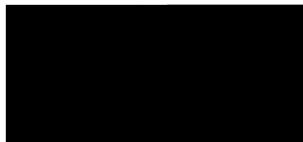
- a.** Your report must include a summation of past experiences at the Annual Meeting (if any).
- b.** Your report must include a summation of expectations and goals for attending future Annual Meetings.
- c.** Your report should include if your chapter or members presented or awarded in previous meetings.
- d.** Your report should include pictures or supplemental materials.

XV. Future Direction

- a.** Your report must include a summation of goals achieved this year.
- b.** Your report must include an outline of the chapter or leadership expectations for next year.
- c.** Your report should include pictures or supplemental materials.

I. Renewal Document

I.A. Faculty Advisor's Information



I.B. Ten core student BMES members

Name	Chapter Position	Email
██████████	Project Coordinator	██████████
██████████	Project Coordinator	██████████
██████████	Outreach Coordinator	██████████
██████████	Treasurer	██████████
██████████	General Member	██████████
██████████	Graphic Designer	██████████
██████████	Project Coordinator	██████████
██████████	General Member	██████████
██████████	President	██████████
██████████	Vice President	██████████

I.C. Student Chapter Website Link

<https://bmesatucirvine.weebly.com/>

I.D. One Free Student Membership Information

New Membership or Renewal	Email	Name	Company/Institution/University	Graduation Year	Gender	Ethnicity
Renewal	██████████	██████████	UC Irvine	██████████	██████████	██████████

Biomedical Engineering Society at the University of California, Irvine
For the 2024-2025 Academic Year

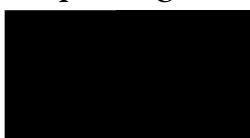
Executive Summary

The University of California, Irvine Chapter of the Biomedical Engineering Society is a student-led organization aiming to support and represent the undergraduate student body interested in biomedical engineering. Through our multitude of sectors, we provide students with resources, networking opportunities, career guidance, volunteer opportunities, technical experience, and a supportive environment of peers, graduate students, alumni, and faculty. We are committed to serving our community by helping our peers grow professionally and personally by tailoring our efforts to their needs, developing an inclusive atmosphere at UCI.

For the 2024-2025 Academic Year, BMES at UCI aimed to improve our programs and develop deeper connections with our members, graduate students, and faculty. The primary objectives for this academic year were to continue to increase our outreach for our Jr. BME Program and diversify our professional as well as technical development activities. We have continued to build relations with the Division of Career Pathways and the Student Outreach and Retention Center to provide our students with professional development resources and support for our outreach endeavors, respectively. We have also built new connections with companies to assist in developing our students' technical skills, such as becoming Ansys Student Partners and communicating with MathWorks representatives. We hosted two large networking events, for research and industry, per past student feedback. Additionally, we hosted our third-annual pitch competition, with support of representatives from various local medical device companies as judges. We also plan to host our third-annual BME Day, hoping for an all-time high attendance of prospective UCI students and families. BMES at UCI continues to maintain connections amongst the undergraduate community through various tabling events as well as with our faculty and graduate students through new research initiatives and collaborative events. Internally, our board cohesion is extremely strong, with the development of lasting friendships and the return of our board retreat, in addition to new board traditions.

BMES at UCI will continue to strengthen our relationships with members, undergraduate students, graduate students, alumni, and faculty members. We strive for continued improvement to meet the growing needs of the UCI community and beyond to serve them to the best of our abilities.

Corresponding Author



Faculty Advisor





THE HENRY SAMUELI SCHOOL OF ENGINEERING
DEPARTMENT OF BIOMEDICAL ENGINEERING
3120 NATURAL SCIENCES II
IRVINE, CALIFORNIA 92697-2715

Dear National BMES,

The local chapter of the Biomedical Engineering Society (BMES) at the University of California Irvine (UCI) has been very productive in the last year. Over the year 2024-2025, UCI's BMES chapter has maintained very good organization and structure due to the excellent leadership and training skills of the students. This has allowed for several accomplishments over the past year. Most notably, the UCI BMES chapter received the Commendable Achievement Award from the National BMES, which allowed them to create new events and programs for their new and returning members this year. This growth allowed them to increase connections and collaborations with the Graduate Association of Biomedical Engineers Society (GABES), such as creating coffee hours, outreaching for professional mentors, and increasing undergraduate engagement with the research that the graduate students of GABES are a part of. In addition, their high school outreach program has been consistently growing over the last year, as they've reached an all-time high in terms of participation by reaching an average of 100 high school students at each workshop. These workshops are geared towards exposure to the field of BME and are supported by the Student Outreach and Retention (SOAR) Center. Workshops that were performed include technical workshops on technical skills using Arduino and SOLIDWORKS, informational workshops on differences in engineering fields, and ideation workshops on finding unmet needs.

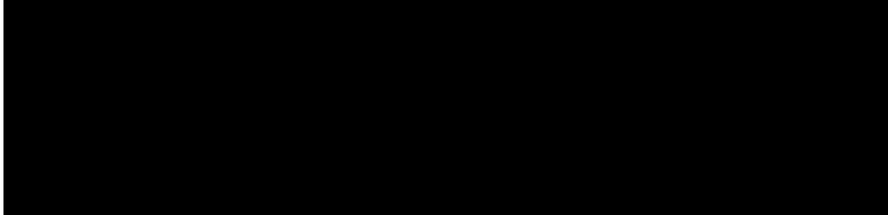
In addition to the above achievements, the students also have maintained their connections with the Division of Career Pathway and SOAR Center to provide student members with as many resources and opportunities as possible, as well as securing more funding to improve and scale their high school outreach program. As part of this collaboration, they've also held their Annual Industry Night in which had over 160 attendees and more than 20 companies from the local area that range from small start-up companies to large established companies, increasing significantly from their prior year's offering. In addition to this event, they also hosted an Annual Research Symposium to expose students to the different research laboratories and potential undergraduate research opportunities within our program, which had over 90 students networking with various labs across the campus. Lastly, they hosted an Annual Pitch Competition, "Open MIC", which had 12 teams compete across 3 different tracks within biomedical engineering (Mechanical/Electrical, Chemical/Biological, and Electrical/Computer Science) for a cash prize for their medical device start-up idea. This competition furthers our entrepreneurial ecosystem efforts within UC Irvine, which has one of the largest number of medtech startup companies in the country. Lastly, they increased cross-organization collaborations to increase engagement across students from all engineering disciplines, such as coffee hour with Engineering Student Council and GABES, as well as a K-12 outreach event called IGNITE with various engineering student organizations.



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The BMES club plans to host several other events and efforts in the upcoming year to improve their chapter. Namely, they have planned and hosted an in-person cross BMES chapter collaboration with UCLA to increase relations and recruitment between undergraduate students from different universities. They also plan to host their third annual BME Day in which they provide lab tours, panel discussions, poster sessions, and informational talks to potential incoming undergraduate students from high school and community colleges who are interested in pursuing the BME program. They intend to increase relationships with local medical device companies through partnership with companies like Johnson & Johnson and Epinex for pre-industry night networking workshops and judging of their competitions like Open MIC. Furthermore, through collaborations with Ansys and MathWorks, large simulation and coding companies that many industries use for medical devices and anatomical modeling, they plan to host workshops and technical skills development activities to improve our students' technical skills prior to graduation. The President of the chapter is also in constant contact with faculty regarding updates and need of faculty support through emails and attending faculty meetings several times each quarter, as these occur biweekly. This effort is being performed in hopes of increasing graduate student and faculty engagement with undergraduate students in research and education, which led to a research interest database of student research interests and upcoming research lab recruitment needs to better streamline the matching process across laboratories and undergraduate researchers.

Sincerely,



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V. Administrative Report

The BMES at UCI Executive and General Board serve as the representatives and leaders of the organization. The Executive Board for the 2024-2025 academic year is made up of one President, one Vice President, and one Treasurer. The General Board Members lead specific sectors of the chapter, Outreach, Activities, Mentorship, Project, Industry, or Publicity, with the support of the Executive Board. Board Members are responsible for organizing workshops, socials, fundraisers, events, collaborations, and more. As the chapter grows, the number of board members will be adjusted accordingly, due to roles and responsibilities needed to support the organization's needs. For the 2024-2025 academic year, the roles remained similar to previous years, but we added a Fundraising Chair to work on raising money for our club endeavors as our Outreach team's responsibilities increased. All Board Members attended weekly board meetings, and each sector was required to meet with the Executive Board at least once a quarter.

BMES at UCI membership is open for all students interested in biomedical engineering, regardless of their majors and backgrounds. The chapter has a wide range of membership options for students to select from depending on what club benefits they want access to. BMES at UCI is affiliated with the Division of Career Pathways (DCP) and the Student Outreach and Retention (SOAR) Center, who provide support and resources to our members and our organization. The chapter also works closely with other Engineering Student Organizations and the Department of Biomedical Engineering to support students of all backgrounds.

V.A. Chapter Officer Information

The BMES at UCI Board consists of an Executive and General Board. The Executive Board is made up of one President, one Vice President, and one Treasurer. This structure is ideal for our growing board, increasing board cohesion, and improving member retention. The Executive Board members worked together to oversee the General Board. This was accomplished through hosting quarterly check-in meetings and additional meetings for large events. The Executive Board also decided to assign each member as the point person for specific sectors. Although the Executive Board would make decisions as a whole and keep each other informed, the delegation of sectors will make communication much more efficient. Table 1 displays the breakdown of our Executive Board and summarizes each position's responsibilities.

Table 1: 2024-2025 Executive Board.

Position	Officer	Responsibilities
President <i>[Executive Board]</i>	[REDACTED]	Serves as the leader of the board and organization. Oversees all club operations and external affairs. Point of contact for Faculty and Graduate Students, including the Graduate Association of Biomedical Engineering Students (GABES). Supervises the Project and Outreach Sectors.
Vice President <i>[Executive Board]</i>	[REDACTED]	Oversees club relations amongst Board Members, general members, and committees within BMES with an emphasis on promoting board cohesion and member retention. Oversees relations and collaborations external to the club and professional associates. Supervises the Mentorship Sector and the Publicity Team.
Treasurer <i>[Executive Board]</i>	[REDACTED]	Serves as the financial manager of the chapter. Supervises the Social, Fundraising, and Industry Sectors.

Table 2: 2024-2025 General Board.

Position	Officer	Responsibilities
Secretary	[REDACTED]	Manages club communication, weekly email, and membership attendance system. Responsible for alumni contacts and events. Records meeting minutes and attendance.
Industry Correspondents	[REDACTED]	Plans all events regarding career development, academia, and industry engagement.
Industry Interns	[REDACTED]	Assists Industry Correspondents in planning and facilitating outreach events.

Outreach Coordinators	[REDACTED]	
	[REDACTED]	Manages the Jr. BME Program, organizes BME Day, and runs the Outreach Committee.
	[REDACTED]	
Outreach Interns	[REDACTED]	Assists Outreach Coordinators in planning and facilitating outreach events.
	[REDACTED]	
Activities Coordinator	[REDACTED]	Organizes all socials and activities to increase member engagement.
	[REDACTED]	
Activities Intern	[REDACTED]	Assist Activities Coordinators in planning the Annual BMES Banquet.
Fundraising Chair	[REDACTED]	Organizes all fundraising efforts to financially support chapter events and efforts.
Publicity Chair	[REDACTED]	Manages social media accounts and advertises all club events.
Mentorship Coordinators	[REDACTED]	Runs the Mentorship program and manages all mentorship-related events such as social and professional development events.
	[REDACTED]	
Graphic Designer	[REDACTED]	Designs BMES merchandise and creates all flyers for events. Manages chapter website.
Project Coordinators	[REDACTED]	Plans and organizes projects, workshops, competitions, and submissions for the

		National BMES Student Design Competition.
Project Interns		Assists Project Coordinators in planning and facilitating project workshops.

V.B. Membership Breakdown

Students of all majors, undergraduate and graduate, were welcome to become members of BMES at UCI. The 2024-2025 Academic Year membership packages offered by BMES at UCI were: Free, Basic, Mentorship, Project, and Premium. The Free Membership allowed students to attend General Meetings and subscribe to our weekly emails. The Basic Membership Package cost \$15 and included perks such as a complimentary BMES at UCI T-shirt (sponsored by Medtronic), new BMES stickers, free admission to our Fall Industry Conference and annual Industry Night, priority access to company tours, and a professional headshot. The Mentorship Package was a \$5 upgrade from the Basic Package for the year, and added access to Professional Mentors in academia, industry, or medicine and mentorship groups filled with peers of like-minded career aspirations. The Project Package was a \$15 upgrade from the Basic Package for the year (or \$12 per quarter), and added access to technical and entrepreneurial workshops and resources, free admission to Mini-Projects and Open Mic, and guidance on the National BMES Student Design Competition. The Premium Package was a combination package of Basic, Mentorship, and Project for \$35 for the year. Students could join during any quarter, and discounts were given depending on the quarter they joined.

BMES at UCI has 214 total members, with 44 General Members, 90 Premium Members (includes all packages), 46 Base Members, 19 Mentorship Members, and 15 Project Members. Thus, the BMES at UCI Mentorship Program had 109 participants, and the Project Program had 105 participants. Figures 1, 2, and 3 summarize the distribution of our members by membership type, majors, and year distribution. This year, BMES at UCI attracted several graduate students and continued to increase the variety of engineering and non-engineering majors, which served as our main membership objectives for this year.

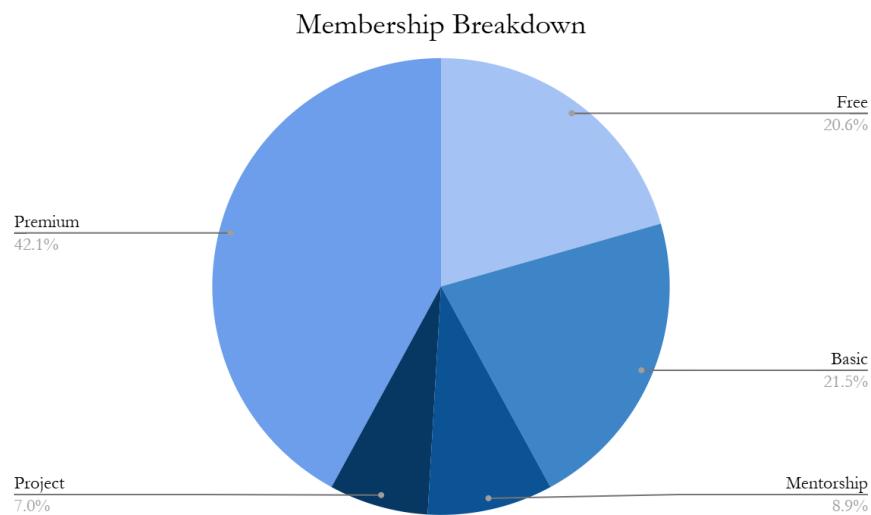


Figure 1: Membership breakdown for BMES at UCI members.

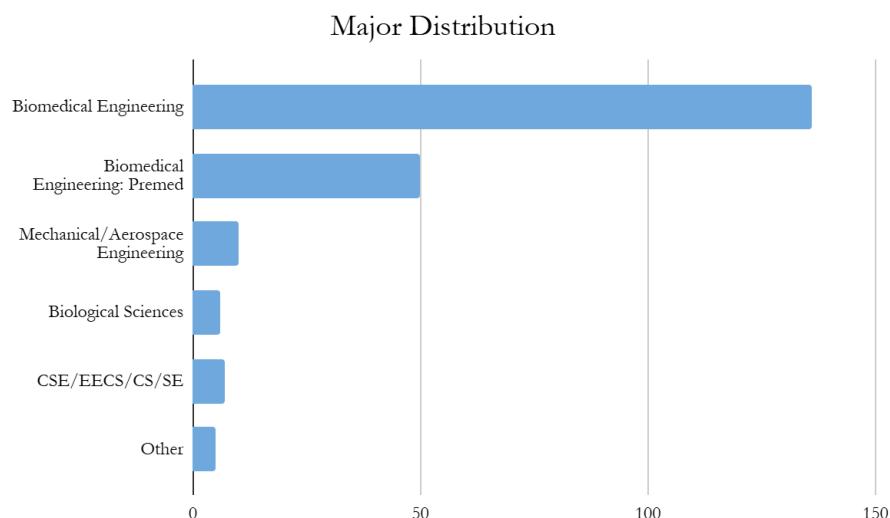


Figure 2: Major distribution for BMES at UCI members.

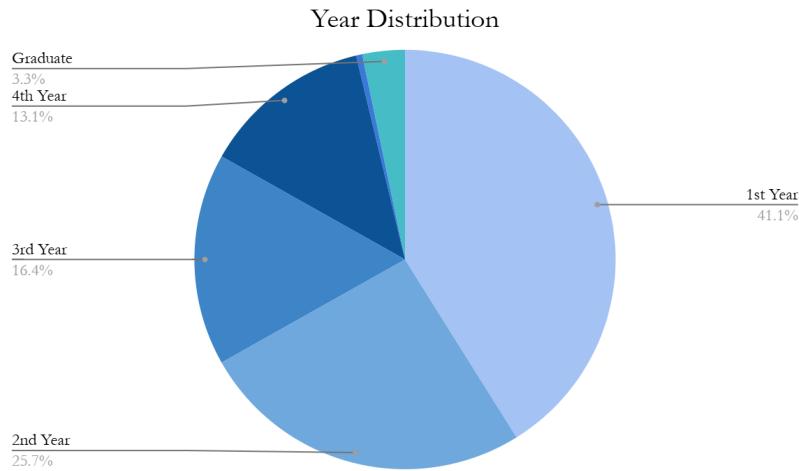


Figure 3: Year Distribution for BMES at UCI members.

V.C. National BMES Membership

BMES at UCI has encouraged our members, both Board and General, to become National BMES members, for the perks it provides for students. Table 3 lists out the National BMES Members in the BMES at UCI chapter.

Table 3: National BMES Membership Breakdown.

Name	2024-2025 Position	Email
[REDACTED]	Project Coordinator	[REDACTED]
[REDACTED]	Project Coordinator	[REDACTED]
[REDACTED]	Outreach Coordinator	[REDACTED]
[REDACTED]	Treasurer	[REDACTED]
[REDACTED]	General Member	[REDACTED]
[REDACTED]	Graphic Designer	[REDACTED]
[REDACTED]	Project Coordinator	[REDACTED]
[REDACTED]	General Member	[REDACTED]
[REDACTED]	President	[REDACTED]
[REDACTED]	Vice President	[REDACTED]

V.D. General Board Meetings

The Executive and General Board met every Monday evening during each quarter in order to discuss upcoming events. General Board Meetings were held in-person in a reserved space, with a Zoom option to allow flexibility for sickness or emergencies. In the event that a Monday was a holiday or there was a conflicting event, the meeting for that week was moved to a different day that suited the availability of the Board Members. These make-up meetings were conducted on Zoom. Board Members operated as sectors (Mentorship, Industry, Outreach, Activities, Publicity, Fundraising, Project) to share information about their event, its itinerary, slides, advertisement, and to request assistance from other Board Members. Our Secretary and Executive Board Members wrote notes and kept track of event planning on the Board Meeting Documents (Fig. 4). In order to maintain morale and engagement during meetings this year, we implemented an introductory activity in which each Board Member would share a bit of good news or something they were looking forward to that week. This was effective in bringing the Board Members closer together and by enlightening spirits during exam seasons and other external stressors.

Upcoming Event Discussion

Event	Notes
Jeopardy Night + UTC Social Wednesday, 4/2 6-7pm TBD	<ul style="list-style-type: none">Master Doc: Welcome Social 4/2 Master DocumentAnnouncement Blurb & Flyer Status: CompleteSlideshow: Jeopardy SocialProject:<ul style="list-style-type: none">Gift cards secured for everyone who filled out the form
Terumo Neuro Info Session Wednesday, 4/9 6-7 pm ISEB 1010	<ul style="list-style-type: none">Master Doc: Terumo Neuro Info Session MasterdocAnnouncement Blurb & Flyer Status: Complete
Device to Dollars: Turning Ideas into Business Thursday, 4/10 6-7:30 PM SL 577	<ul style="list-style-type: none">Master Doc: Device to Dollars Master DocumentAnnouncement Blurb & Flyer Status: CompleteRoom: SL Collaboration Zone (577)Speaker: probably Lucas... going to get things to talk about from people
<u>Dare2Donate!</u> Weeks 2-3 Instagram	<ul style="list-style-type: none">Master Doc:Announcement Blurb & Flyer Status: In progressRules and Prep? - Mihir pls explain

Figure 4. Notes from a General Board Meeting Document.

The table below contains the dates of the Board Meetings for each quarter.

Table 4: General Board Meeting dates for the 2024-2025 Academic Year.

Fall	Winter	Spring
09/30/24	01/06/25	03/31/25
10/7/24	01/13/25	04/01/25
10/14/24	01/20/25	04/07/25
10/21/24	01/27/25	04/14/25
10/28/24	02/03/25	04/21/25
10/30/24	02/10/25	04/28/25
10/28/24	02/18/25	05/05/25
11/04/24	02/24/25	05/12/25
11/11/24	03/03/25	05/19/25
11/18/24	03/10/25	05/27/25
11/25/24		06/02/25
12/02/24		

Board Meetings follow an agenda, which is decided by the President each week depending on upcoming events. The document consists of Tasks, Upcoming Event Discussion, Upcoming Larger Events, What's New, Post-Event Discussion, and Other Board Updates (Fig. 5). Following the creation of the agenda, the Vice President and Treasurer review the document for the upcoming board meeting before it is made available to the Board Members for them to add updates as well. After the President creates the agenda, the Vice President and Treasurer then add their updates and topics that must be discussed at the meeting. Event Discussion was split up in order to first tackle the more immediate events before more long-term events that are less urgent. This was much more time efficient than simply going in chronological order. What's New allows for the Executive Board to note reminders or convey new information to the General Board Members.

Post-Event Discussion

Event	Notes
Mini Project 2	<ul style="list-style-type: none"> Master Doc: Mini Project Series Master Document
Study Hours 4	<ul style="list-style-type: none"> Master Doc: Study Hours #4 Master Document
Pre-Industry Night	<ul style="list-style-type: none"> Master Doc: Pre-Industry Night Master Doc

• Tasks

- Storage Issue: working on it
- PSA: Check-in forms
- Due:
 - Birthday Wishes
 - <https://forms.gle/3FhDo2MyJ3gt3Yp17>
 - Neha (half-bday), Sam, Varu, Josh

Upcoming Larger Events

Event	Notes
Open MIC Saturday, 3/8 11:30 - 3:30 PM, MDEA/Colloquia	<ul style="list-style-type: none"> Master Doc: Open MIC Master Document Announcement Blurb & Flyer Status: Complete RSVP: https://docs.google.com/forms/d/e/1FAIpQLSdgLeNYaSn6hHBap2Q6NaYtDnnnw-HOp1KVWkdRDSNF-og/viewform Can we link the RSVP Lucas - Industry night networking asking for sponsorships: Money,

Other Board Updates

Position	Update
Exec	•
Fundraising	•
Graphic	<ul style="list-style-type: none"> Banner design? <ul style="list-style-type: none"> can you ask me again like week 8 :) yes <3
Secretary	•
Mentorship	<ul style="list-style-type: none"> Payments?
Publicity	•
Activities	<ul style="list-style-type: none"> Birthday Wishes (Finish asap) <ul style="list-style-type: none"> https://forms.gle/3FhDo2MyJ3gt3Yp17 We meet after for banquet
Outreach	<ul style="list-style-type: none"> Are ppl free sometime this week/next week 12:15-12:45 for Portola <ul style="list-style-type: none"> Friday: Dave Dathan Neha AntGathering 2/25 (Tuesday) 10-2 <ul style="list-style-type: none"> Neela, Chris (12-2), Neha (10-2), Dave (10-2), Shreyas (12-2)

Figure 5. Additional notes from a General Board Meeting Agenda.

As in previous years, a “Master Document” template for events was used by the Board Members. The purpose of this document is to maintain an organized tracking system and store all of the relevant information for an event in a single location. During Post-Event Discussion, the President shared her screen and opened the Master Documents to add notes for positive feedback as well as improvements for future similar events. Especially for larger events that are consistently similar across the years, this is beneficial so that each year sees improvement in event logistics and turnout. The Secretary annotated each Board Meeting Document and Master Document with Meeting Minutes for all of the topics discussed during meetings.

Executive Board Meetings began after the election in Spring 2024 to begin planning for the onboarding of Board Members and events for the 2024-2025 school year. They met as needed after General Board Meetings to discuss event logistics and support the Board Members as best as possible. At the start of each quarter, the Executive Board planned a meeting with the Faculty Advisor to discuss feedback from events as well as request assistance or support for advertisement, participation of the faculty, and future event ideas. Meetings known as “Check-Ins” were also implemented with each General Board sector to devote more time to event ideation/progress, discuss their mental health and work-life balance as students, and review budgets.

The Executive Board coordinated with the General Board Members to schedule meetings for larger events, such as Industry Night, BME Day, Research Symposium, and Open MIC: Medical Innovation

Competition. The meetings allowed for a more in-depth discussion into logistics including setting up shifts for other Board Members and reaching contacts amongst Graduate Students via the Graduate Association of Biomedical Engineering Students, Alumni, and Faculty. They also allowed for the Treasurer to coordinate the purchase of materials and booking venues.

The Executive Board regularly acknowledged and celebrated the contributions of Board Members after each event and at Board Meetings during the 2024-2025 Academic Year. Feedback during Board Meetings went both ways, with the Executive Board frequently opening up opportunities for feedback regarding their leadership and the General Board receiving feedback from the Executive Board on how to improve their communication and organization.

V.D.i. Board Traditions

The 2024-2025 Academic Year saw strong cohesion and companionship between the board members. As the weather permitted, Board Members met outdoors to play pickleball and basketball prior to or following Board Meetings. These activities were not planned by the Executive Board as an official social, but often were a source of relief and relaxation during stressful academic periods and brought Board Members closer together.

In addition, every now and then, General Board Members or Executive Board Members would also bring food, snacks, or sweets to share, especially for holidays, birthdays, or the end of a successful quarter. Board Members love the treats, and Board Meetings feel welcoming and enjoyable. At Board Meetings, the Activities Coordinators arranged gifts for each Board Member to receive their favorite food and drink on their birthday. They also created a Google form for other Board Members to write birthday wishes and compiled these messages into a physical card for each birthday. These were all great avenues for Board Members to support each other as people and feel appreciated.

The Vice President continued the tradition of adding a funny meme or photo at the top of the Board Meeting Documents. Along with sharing positive news, this was an additional way to get Board Members more comfortable and present before starting Meetings and diving into event discussion.

Following events, particularly larger events, Board Members congratulated the sector responsible for the event and acknowledged their effort. This created a positive environment for the Board Members, encouraging them to be supportive of each other and continue giving their best efforts to BMES at UCI.

The Vice President was responsible for planning Board Socials during each quarter in the form of casual activities and hangouts. At the end of Fall Quarter, there was a Secret Santa potluck hosted by the Vice President for all of the Board Members. Everyone enjoyed eating together, playing poker, and chatting amongst themselves. This event was a great icebreaker for Board Members to get to know each other over some food and gifts. During Winter Quarter, another potluck was hosted at the President's house. Since many sectors had taken on Interns during this Quarter, this was a good opportunity for the Board Members to connect with the Interns by playing basketball, video games, and eating food provided by various Board Members. In Spring Quarter, Board Members are planning to take advantage of the nice weather and go to the beach or the pool together.



In Winter Quarter, the Vice President also brought back a previous tradition of organizing a Board Retreat. Each of the 16 Board Members who attended contributed to the cost of an Airbnb house in Joshua Tree and arranged carpool rides. After everyone unpacked their belongings and chose rooms, Board Members worked together to make a charcuterie board and burgers for dinner. The house was large, allowing for a multitude of activities to take place at the same time. Some Board Members made s'mores by the fire or stargazed outside and others played card games inside. At the end of the night, all of the Board Members reconvened to sing karaoke to their favorite songs, laugh, and dance together. After catching a few hours of sleep, everyone woke up and drove into Joshua Tree National Park to go on a sunrise hike. This was a memorable experience that brought the Board Members closer together and created special memories as the sun rose over the park. After grabbing breakfast and coffee, everyone prepared to drive back home. This was incredibly important to the dynamic of the Board, with Board Members frequently expressing their gratitude for the opportunity to have a Retreat and to

spend quality time as a group. Starting this tradition again was valuable and will serve as an example for future Retreats.



V.E. General Meetings

General Meetings were held during the first week of each academic quarter. Although the activities hosted at each meeting varied, our goal for these meetings stayed consistent throughout the year. BMES at UCI held events that welcomed students back to school after breaks. It was important to open up each quarter with a fun and interactive event to ease students back into the academic quarter. One general meeting even included an off-campus social at a shopping center nearby campus. Event specifics for the General Meetings can be found in Table 5.

Table 5: General Meeting dates for the 2024-2025 Academic Year.

Quarter	Date and Time	Agenda
Fall	10/02/24 6:00 PM - 7:00 PM	Welcome to BMES!
Winter	01/08/25 6:30 PM - 7:30 PM	BINGO Night
Spring	04/02/25 6:00 PM - 9:00 PM	Jeopardy Social + University Town Center Social

V.E.i. Welcome to BMES Meeting

Every year, BMES at UCI hosts our General Meeting during the first week of the Fall Quarter. The purpose of this “Welcome to BMES” Meeting is to introduce our organization, our mission, our

programs, and our board! Our goal was to welcome new and returning members who are interested in joining BMES at UCI this year or want to learn more about the medical device field, healthcare, and engineering. We wanted to share the opportunities we have to offer our members throughout the year in order to support them in achieving their academic and professional goals. We also aimed to break the ice and have members and our board members socialize in a more casual setting. During the meeting, we started off with an overview of our organization and our mission. It was followed by our board introductions. Including introducing themselves, our board members elaborated on what each of their sectors could provide for our students, such as resources, workshops, and larger events! Afterwards, we talked about a few upcoming events and our membership options. After our presentation, we gave students time to think about and sign up for membership depending on their preferences. The Anteater Involvement Fair garnered an impressive turnout, and all of our board members were very excited to get the year started! We did not have a planned social activity this year as we saw that a lot of the students would prefer asking questions or getting to know the board members and peers around them. Students approached our board and asked about college life, the biomedical engineering program, and opportunities that they can get involved in early! This meeting was a memorable start to the year to welcome students to UCI and introduce them to what BMES has to offer!



Date	Audience	Attendance	Cost
10/02/24 6:00 PM - 7:00 PM	Undergraduate Students Graduate Students	115 Undergraduate Students	\$0.00

V.E.ii. Winter General Meeting: BINGO Night

BMES at UCI hosted a BINGO social for our Winter General Meeting, an event aimed to start the quarter off with a fun and easy activity. As the name suggests, students were given customized playing

cards to play a game of BINGO. In addition, a custom BINGO number generator was created on MATLAB as a DIY Engineering Experiment. BINGO is not complete without prizes so the Activities Coordinators had prepared three mystery prizes that players could win. The winning conditions were: completing a line, an X, or a blackout, for the three rounds respectively. If a student won a BINGO for the round, they got to pick their mystery prize and the next round's winning condition. Our games ended right on time, with our members winning creative prizes, such as a caliper, plushie, and a mug. Overall, the event was a great success with the attendees providing an exciting and appropriate atmosphere for a BINGO game. Camaraderie was greatly encouraged and we hope to host more fun BINGO nights in the future!



Date	Audience	Attendance	Cost
01/08/25 6:30 PM - 7:30 PM	Undergraduate Students Graduate Students	40 Undergraduate Students	\$0.00

V.E.iii. Spring General Meeting: Jeopardy Night + UTC Social

For our Spring General Meeting, the BMES at UCI Activities team hosted a Jeopardy Night to kick off the new spring quarter with an engaging and interactive event that fosters a welcoming community amongst our members. First, the event featured a friendly game of group Jeopardy, where our participants worked in teams to answer fun and challenging questions. This game of Jeopardy featured 3 closely seated teams that adopted unique names and competed against each other. The categories were both related to biomedical engineering or not, providing a unique set of questions that our participants did not expect. Following the game, members had the opportunity to continue socializing at the University Town Center (UTC) nearby. Upperclassmen, in particular, fostered closer relationships with underclassmen by initiating conversations and providing rides from our Jeopardy

event to UTC. The relaxed atmosphere of UTC facilitated further conversations among members. This event aimed to provide both new and returning members with a chance to connect, learn more about the organization, and strengthen relationships within the BME community at UCI.



Date	Audience	Attendance	Cost
04/02/25 6:00 PM - 7:00 PM	Undergraduate Students	21 Undergraduate Students	\$0.00

VI. Treasury Report

The Treasurer of BMES at UCI manages all financial operations and accounts. The responsibilities of the Treasurer include managing chapter expenditures and revenue, managing the cash and electronic money accounts, supporting and organizing fundraisers, and obtaining funds from external sources. The main form of monetary influx came as campus fundraisers, institutional grants, department funding, and membership fees. The significant financial contributors are the UCI Department of Biomedical Engineering and the Engineering Student Council. This year, BMES at UCI was able to obtain several sponsorships from local medical device and biotechnology companies to support our events and club merchandise; our T-shirts this year were generously sponsored by Medtronic. A majority of our funds were from event fee revenue and fundraisers, which covered expenses when we lacked financial support from our external sources.

The Treasurer collaborated with the Fundraising Chair to sell food at the Engineering Food Fair hosted by the Engineering Student Council (ESC) to support engineering student organizations and several off-campus fundraisers at Blaze Pizza and Sgt. Pepperoni's Pizza. General Board Members are required to submit a budget each quarter for the Treasurer to review and approve expenses for events. All items are approved by the Treasurer before purchase and the purchaser will be reimbursed or sourced from funding. The report summarizes quarterly deposits, expenses, and reconciliations.

VI.A. Chapter Balance Sheet

Table 6: Chapter Balance Sheet for the 2024-2025 Academic Year.

*As of April

Chapter Balance Sheet			
	Fall 2024	Winter 2025	Spring 2025
Starting Balance	[REDACTED]	[REDACTED]	[REDACTED]
Expenses	[REDACTED]	[REDACTED]	[REDACTED]
Deposits	[REDACTED]	[REDACTED]	[REDACTED]
Net Balance	[REDACTED]	[REDACTED]	[REDACTED]

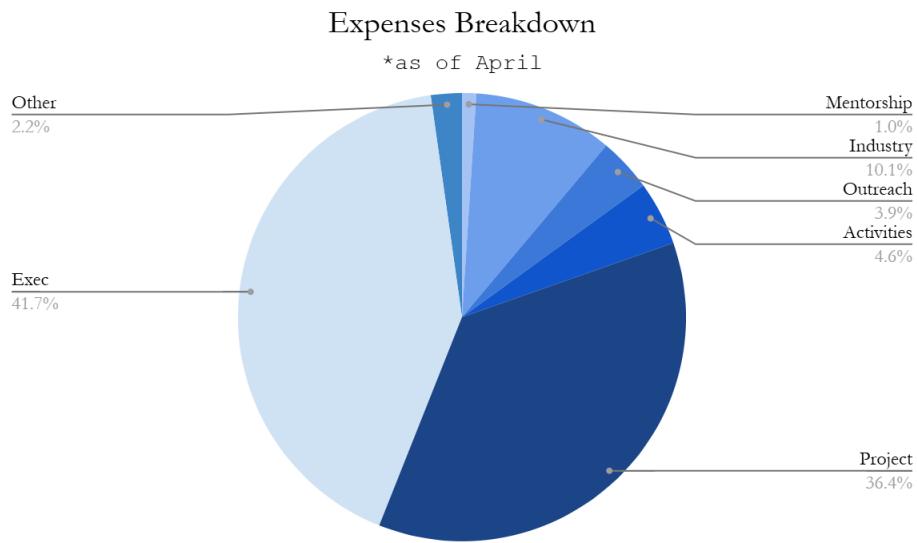


Figure 6: Breakdown of annual chapter expenses by sector. BMES at UCI has 5 different sectors: Outreach, Societal Impact (Project), Industry and Professional Events, and Mentorship. All remaining expenses (such as club merchandise, Campus Organization fees, and National BMES Conference fees) were grouped under Administrative Expenses (Exec)

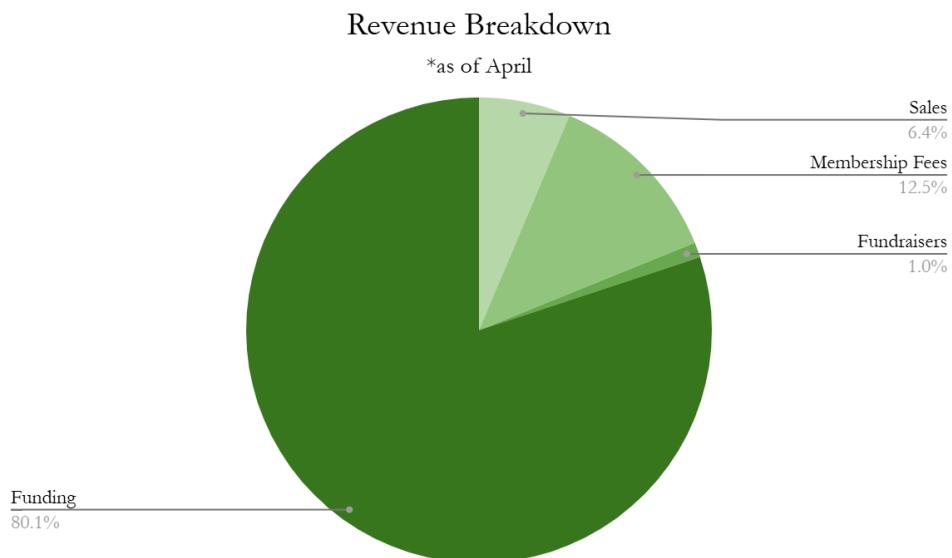


Figure 7: Breakdown of revenue by funds type (membership, external funding, fundraisers, or sales). The primary means of revenue is further detailed in the next section.

VI.B. Primary Means of Revenue

Below is a breakdown of revenue and funds earned throughout the year by event.

Table 7: Chapter's Primary Means of Revenue for the 2024-2025 Academic Year.

Event	Net Amount Raised
Membership Dues	[REDACTED]
UCI BME Department	[REDACTED]
P-Council	[REDACTED]
Blaze Pizza (winter)	[REDACTED]
Sgt. Pepperoni Fundraiser (winter)	[REDACTED]
Engineering Food Fair	[REDACTED]
Dare2Donate*	[REDACTED]
Sgt. Pepperoni Fundraiser*	[REDACTED]
Blaze Pizza*	[REDACTED]
Merchandise and Event Fees	[REDACTED]
SOAR OSIP	[REDACTED]

*Future Events

VI.B.i. Membership Dues

The majority of revenue was generated from Membership Dues. As stated previously in the Membership Breakdown section, our membership options for the 2024-2025 Academic Year consisted of the Basic Package [REDACTED], Mentorship Package [REDACTED], Project Package [REDACTED] [REDACTED], and Premium Package [REDACTED]. Students were also encouraged to be a General Member (being added to our newsletter and attending our General Meetings) if they did not want to pay to become a member. Membership dues were collected throughout the year, usually in the first 3 weeks of the quarter or around the time of large events (such as Industry Night) as students take advantage of event discounts through full membership.

VI.B.ii. UCI BME Department

Having been a premier engineering student organization in past years, BMES at UCI has been held in good standing with the UCI BME Department. At the beginning of the academic year, BMES submits a budget of estimated costs for events throughout the year to the department. After review, BMES is granted a given amount of money to be used for any club event, provided that it is spent in accordance with department policy. The money can be reallocated to different events as needed. Funding is done through reimbursement, where BMES submits receipts of purchases to the Engineering Department and the Treasurer is reimbursed in accordance with the pre-approved budget.

VI.B.ii. P-Council

Engineering student organizations at UCI have the opportunity to be a part of the Engineering Student Council's President's-Council as an extra source of funding for club activities. Funds from P-Council are used for the express purposes of engineering related events. Each quarter an organization can apply for funding, to which awarded funds are deposited directly into the BMES at UCI accounts held within the school. At the end of the quarter, awarded organizations must submit a follow up report on how the funds were used in order to be eligible for funding the following quarter.

VI.B.iii. Blaze Pizza Fundraiser

The Blaze Pizza fundraiser hosted by the BMES at University Town Center successfully raised a total of [REDACTED] on Wednesday, January 15th, 2025. The event encouraged students and faculty to dine at Blaze Pizza, with 20% of the proceeds donated to BMES. The fundraiser aimed to support the organization's activities and initiatives, fostering community engagement and promoting the growth of the biomedical engineering field. The event's success highlights the continued support for student organizations and the positive impact of collaborative fundraising efforts.



VI.B.iv. Sgt. Pepperoni's Fundraiser

The Sgt. Peperonics fundraiser held by the BMES at Campus Plaza on February 5, 2025, was a successful event that raised [REDACTED] to support the organization's activities. Attendees enjoyed a variety of pizza options, with a portion of the proceeds from their purchases being donated to BMES. The event not only offered a fun and casual atmosphere for the BMES community to come together but also provided funds to support BMES's initiatives.

VI.B.v. Engineering Food Fair

The Biomedical Engineering Society (BMES) participated in the Engineering Food Fair by selling Costco chicken bakes at Ring Road. The event was a tremendous success, with all items sold out and a total of [REDACTED] raised. The fundraiser provided an excellent opportunity for BMES to engage with the campus community, spread awareness of the organization's goals and opportunities, and also raise funds to support the society's initiatives.

VI.B.vi. Dare2Donate

From April 8 to April 20, BMES at UCI will host *Dare2Donate*, a creative and interactive fundraising event where board members will post personalized Dare Boards to their Instagram stories. Each Dare Board will feature a variety of fun and light-hearted challenges, each associated with a specific donation amount ranging from [REDACTED].

Participants will be able to select a dare and donate via Venmo or Zelle to see a board member complete the chosen challenge. Some examples of dares will include eating a lemon, doing a cartwheel in Aldrich Park, taking a hot sauce shot, sharing a baby photo, performing a TikTok dance, or doing the Disney Channel logo intro. Higher donation tiers will allow donors to choose a custom dare.

All proceeds from Dare2Donate will go directly to BMES to support future events, resources, and organizational initiatives. The fundraiser will aim to engage the community through humor and participation while raising money for a meaningful cause.



VI.B.vii. Sgt. Pepperoni's Fundraiser

BMES at UCI will hold another fundraiser during the Spring quarter at Sgt. Pepperoni's on April 16th, 2025. Attendees will enjoy a variety of pizza options, with a portion of the proceeds from their purchases to be donated to BMES. The event will not only offer a fun and casual atmosphere for the BMES community to come together but also provide funds to support BMES's initiatives.

VI.B.viii. Blaze Pizza Fundraiser

The second Blaze Pizza fundraiser will be hosted by the BMES at University Town Center on Wednesday, May 7th, 2025. The event will encourage students and faculty to dine at Blaze Pizza, with 20% of the proceeds donated to BMES. The fundraiser aims to support the organization's activities and initiatives, fostering community engagement and promoting the growth of the biomedical engineering field. The event's success will highlight the continued support for student organizations and the positive impact of collaborative fundraising efforts.

VI.B.ix. Merchandise and Event Fees

BMES at UCI charges fees for some of its biggest events, such as Industry Night and Open MIC. These are door fees that allow attendees full access to the respective event once the fees are paid in full. A great deal of revenue from this sector came from door fees during Industry Night, as this event attracts flocks of students not afflicted with BMES, yet want the opportunity to network with industry professionals in hopes of landing an internship or job. The Project sector's quarterly competitions have an entry fee that is waived for those with a Project or higher membership, but still enforced on other

students arriving to compete. Additionally, BMES at UCI offers stickers and small related merchandise for minor sales that the occasional student purchases.

VI.B.x. SOAR OSIP

UCI's Student Outreach and Retention Center offers opportunities for student organizations to become affiliates, unlocking access to resources and networks for running programs. Affiliates become eligible to apply for Student-Initiated Outreach Program funding, which BMES at UCI applied for to help purchase food and supplies for the outreach activities planned throughout the year. Given the vast scale of Jr. BME and BME Day in addition to the fact that BMES had applied for OSIP funding the previous year, SOAR granted funding comparable to that of the BME Department's. Funds were granted via SOAR as a proxy; a budget for each event was submitted and compared with the provided manifesto on the OSIP application. Once approved, SOAR would purchase supplies and BMES members would physically pick them up prior to each event.

VI.C. Financial Management

The Treasurer of BMES at UCI utilized methods of the previous treasurer with the organizing and recording of all transactions— disbursements, receipts, monetary influx, sources of funding, and quarterly summaries. Reconciliation of monthly disbursements and influx was tracked automatically through adept use of spreadsheet tools. Other sources, such as membership fees, were resolved quarterly to collate accounts as fees were received frequently throughout each quarter. Reimbursements were managed by the Treasurer alone after receiving receipts from the purchaser. Additionally, a separate record of external funding sources was also recorded (for P-Council and the UCI BME Department. Shown in Figures 8 through 11 are samples of the spreadsheet used by the Treasurer to manage financial transactions throughout the academic year.

August	Starting balance	
	Deposits	
	Expenditures	
	Ending balance	
September	Starting balance	
	Deposits	
	Expenditures	
	Ending balance	
October	Starting balance	
	Deposits	
	Expenditures	
	Ending balance	

Figure 8: Bank reconciliation spreadsheet used to account for monthly transactions.

Date	Name	Description	Amount	Type					Received?
				Sales	Fundrais	Funding	Returns	Other	
9/26/24		Membership Fee		<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
9/30/24		Membership Fee		<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
10/1/24		Membership Fee (Taneesh venmo portion only)		<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
10/23/24		P-Council (fall)		<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
11/20/24		Tech triathlon signup fee		<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
1/6/25		Venmo and cash membership fees		<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>

Figure 9: Cash receipts spreadsheet to account for all revenue and funding, including status.

Date	Pay to	Description	Amount	Branch							Reimbursed?
				Mentor	Industr	Outrea	Activiti	Project	Exec	Other	
8/14/24				<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>				
9/13/24				<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>				
9/20/24				<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>				
9/20/24				<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>				
9/28/24				<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>				
9/29/24				<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
10/4/24				<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>				
10/5/24				<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
10/9/24				<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
10/11/24				<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>				

Figure 10: Disbursements spreadsheet to record all expenses and reimbursements.

Fall Quarter			
Event	Amount Granted	Amount Spent	Need to Return
BMES Conference			Reimbursement
Research Symposium			Reimbursement
Research Symposium + mini project			\$0.00
Coffee Hour			Reimbursement
Amount to Return:			\$0.00

Winter Quarter			
Event	Amount Granted	Amount Spent	Need to Return
Industry Night			Reimbursement
Open MIC + Industry Night + Project Workshops			\$0.00
Amount to Return:			\$0.00

Figure 11: External funding spreadsheet to record all incoming grant funding

VII. Chapter Activities

VII.A. Fall Quarter 2024 Events Summary

Date	Event	Category
09/23/24	Anteater Involvement Fair	Social or Other
09/27/24	Welcome Week Bonfire	Social or Other
09/30/24	Art of Engineering	Social or Other
10/02/24	Fall GM: Welcome to BMES Meeting	Social or Other
10/03/24	Cross-ESO Project Symposium	Societal Impact
10/04/24	Inari Medical Info Session	Industry and Professional Development
10/04/24	Cross-ESO Bonfire	Social or Other
10/09/24	Spooky Trivia Night	Social or Other
10/10/24	SolidWorks Keychain Workshop	Societal Impact
10/12/24	UCI x UCLA Beach Social	Inter-Chapter Activities
10/13/24	Jr. BME: Welcome to Jr. BME	Outreach
10/14/24	Medtronic Company Tour	Industry and Professional Development
10/16/24	BMES Fall Study Hours	Social or Other
10/16/24	Mentorship Meet and Greet	Mentoring
10/17/24	Arduino Workshop	Societal Impact
10/21/24	Medtronic ACE Internship Info Session	Industry and Professional Development
10/23/24	BMES Fall Study Hours	Social or Other
10/27/24	Jr. BME: Onshape Workshop	Outreach
10/30/24	BMES Fall Study Hours	Social or Other
10/30/24	Pitching Mixer	Social or Other
11/06/24	BMES Fall Study Hours	Social or Other

11/06/24	Mentorship Reveal	Mentoring
11/07/24	MATLAB Workshop	Societal Impact
11/09/24	OC Food Bank Event	Outreach
11/12/24	Panel with Leigh High School	Outreach
11/12/24	Applied Medical Industry Seminar	Industry and Professional Development
11/13/24	Resume Workshop	Industry and Professional Development
11/13/24	Yogurtland Fundraiser	Social or Other
11/17/24	Jr. BME: Arduino Workshop	Outreach
11/18/24	Cross-Chapter Trivia	Inter-Chapter Activities
11/18/24	Research Symposium	Industry and Professional Development
11/20/24	Technical Triathlon	Societal Impact
11/24/24	Jr. BME: Research Skills	Outreach
11/26/24	BMES x ESC x GABES Coffee Hour	Social or Other
12/04/24	Finals Study Hour	Social or Other

VII.B. Winter Quarter 2025 Events Summary

Date	Event	Category
01/08/25	BMES Winter Study Hours	Social or Other
01/08/25	Winter GM: BINGO Social	Social or Other
01/14/25	Mini Project Workshop: CAD	Societal Impact
01/15/25	BMES Winter Study Hours	Social or Other
01/15/25	Exploration Project Kick-Off	Mentoring
01/15/25	Blaze Pizza Fundraiser	Social or Other
01/22/25	BMES Winter Study Hours	Social or Other

01/22/25	Professional Panel	Mentoring
01/22/25	Dave & Busters Social	Social or Other
01/26/25	Jr. BME: Business Skills	Outreach
01/28/25	Mini Project Workshop: Arduino	Societal Impact
01/29/25	BMES Winter Study Hours	Social or Other
01/29/25	Pre-Industry Night with J&J	Industry and Professional Development
02/05/25	BMES Winter Study Hours	Social or Other
02/05/25	Sgt. Pepperoni's Fundraiser	Social or Other
02/05/25	Exploration Project Work Time	Mentoring
02/06/25	Industry Night	Industry and Professional Development
02/11/25	Mini Project Workshop: Coding	Societal Impact
02/12/25	BMES Winter Study Hours	Social or Other
02/12/25	Presentation Night Social	Social or Other
02/16/25	Jr. BME: Pitching Skills	Outreach
02/18/25	Engineering Food Fair	Social or Other
02/19/25	BMES Winter Study Hours	Social or Other
02/19/25	Open MIC Kick-Off	Societal Impact
02/20/25	Mentorship Study Hours	Mentoring
02/23/25	Jr. BME: Career Panel	Outreach
02/24/25	E-Week Kick-Off Fair	Social or Other
02/25/25	AntGineering	Outreach
02/26/25	BMES Winter Study Hours	Social or Other
02/26/25	Exploration Project Showcase	Mentoring
03/01/25	UCI Homecoming Event	Social or Other

03/05/25	BMES Winter Study Hours	Social or Other
03/05/25	Open MIC Office Hour	Societal Impact
03/08/25	Open MIC: Medical Innovation Competition	Societal Impact
03/09/25	Jr. BME: Presentations and Awards	Outreach
03/12/25	BMES Winter Study Hours	Social or Other

VII.C. Spring Quarter 2025 Events Summary

Date	Event	Category
04/01/25	Engineering Awards Banquet	Social or Other
04/02/25	Spring GM: Jeopardy Night + UTC Social	Social or Other
04/08/25	BMES Spring Study Hours	Social or Other
04/06-19/25	Dare2Donate	Social or Other
04/09/25	Terumo Neuro Info Session	Industry and Professional Development
04/10/25	Device to Dollars: Turning Ideas to Business	Societal Impact
04/15/25*	BMES Spring Study Hours	Social or Other
04/16/25*	Sgt. Pepperoni's Fundraiser	Social or Other
04/16/25*	Mentorship Picnic	Mentoring
04/19/25*	Celebrate UCI	Social or Other
04/20/25*	BME Day	Outreach
04/22/25*	BMES Spring Study Hours	Social or Other
04/23/25*	BMES Ball Kick-Off	Social or Other
04/24/25*	SOLIDWORKS Keychain Workshop Pt. 2	Societal Impact
04/29/25*	BMES Spring Study Hours	Social or Other
04/30/25*	Interview Preparatory Workshop	Mentoring

05/06/25*	BMES Spring Study Hours	Social or Other
05/07/25*	B. Braun Info Session	Industry and Professional Development
05/07/25*	Blaze Pizza Fundraiser	Social or Other
05/14/25*	Mocktail Mania	Social or Other
TBD*	Charity Field Day	Social or Other
05/18/25*	IGNITE	Outreach
05/20/25*	BMES Ball	Social or Other
05/27/25*	BMES Spring Study Hours	Social or Other
05/28/25*	National BMES Kick-off	Societal Impact

*Future Events

VIII. Social or Other Activities

While most of the sectors focus on student development as engineers, the Activities Sector of BMES at UCI is geared towards creating an enjoyable and social atmosphere that offers respite from the course-heavy day to day life as an engineering student. Each quarter was kicked off in high gear with bonfires and game socials. A popular recurring theme was trivia night, consisting of a jeopardy-style competition that not only consisted of the typical pop culture and occasional engineering questions, but also a series of riddles and wordplay that were created by our imaginative Activities Coordinators. A new measure taken this year was hosting weekly study hours, where BMES at UCI reserved rooms in the libraries to hold as an open space for members to come in as they pleased for members to study and/or work together with other members. The annual BMES Ball will wrap up the end of the academic year as BMES at UCI's biggest social event of the year, celebrating the accomplishments and hard work of members and peers. The 2024-2025 Social events for BMES at UCI were all great hits that served as a catalyst for developing bonds amongst and irreplaceable memories for our members.

Table 8: List of Social or Other Activities.

Date	Event
09/23/24	Anteater Involvement Fair
09/27/24	Welcome Week Bonfire
09/30/24	Art of Engineering
10/04/24	Cross-ESO Bonfire
10/09/24	Spooky Trivia Night
10/16, 10/23, 10/30, 11/06/24	BMES Fall Study Hours
10/30/24	Pitching Mixer
11/26/24	BMES x ESC x GABES Coffee Hour
12/04/24	Finals Study Hour
01/08, 01/15, 01/22, 01/29, 02/05, 02/12, 02/19, 02/26, 03/05, 03/12/25	BMES Winter Study Hours
01/22/25	Dave & Busters Social

02/12/25	Presentation Night Social
02/24/25	E-Week Kick-Off Fair
03/01/25	UCI Homecoming Event
04/01/25	Engineering Awards Banquet
04/08, 04/15, 04/22, 04/29, 05/06, 05/13, 05/27/25	BMES Spring Study Hours
04/19/25*	Celebrate UCI
04/23/25*	BMES Ball Kick-Off
05/14/25*	Mocktail Mania
05/20/25*	BMES Ball

* Future Event

Fall Quarter

VIII.A. Anteater Involvement Fair

The Anteater Involvement Fair (AIF) is an annual event hosted by the Office of Campus Organizations and Volunteer Programs (COVP) at UC Irvine. At this event, student organizations and campus resources were able to booth on campus and recruit students to become members of their organizations. BMES at UCI was able to booth for all 5 hours of this event to meet new students who are interested in joining our organization! Our goal was to spread the word about our organization, advertise our upcoming events, as well as provide our sign-up form and socials to people who stopped by our booth. To achieve this, we set up a booth with a descriptive tri-fold, multiple flyers with our QR codes and upcoming events, and had our board members wear T-shirts so they could be easily recognized. As students approached our booth, we offered free stickers if they interacted with our socials or signed up for membership. At this event, we promoted our Welcome Bonfire, First General Meeting, and a Medtronic Company Tour. All the students we talked to were welcome to attend our upcoming events. Although we could not track the exact number of students we talked to at the fair, we did gain about 100 followers on Instagram, students who joined our Discord, and students who joined our mailing list. We estimate that we were able to reach 250 students at this event.



Date	Audience	Attendance	Cost
09/23/24 10:30 AM - 4:30 PM	Undergraduate Students	250 Undergraduate Students	\$0.00

VIII.B. Welcome Week Bonfire

Our first event of the quarter is the BMES at UCI Welcome Bonfire! This is a social event that took place on Corona Del Mar beach in the evening towards the end of Week 0, or Welcome Week at UCI. The goal of this event is to introduce new members, mostly freshman and transfer students, to BMES at UCI in a casual manner. We hope that new students are able to make new friendships and get to know the BMES board members at this event in a comfortable setting. In order to prevent any issues with firepit acquisition, our Vice President secured a pit several hours prior to the start time. Many students did not have transportation to the bonfire location, so a multitude of board and general members were able to provide rides from around 6-6:30 PM. We started the event off with time to mingle and eat. We also had spikeball and volleyball available for students who were interested in playing. After mingling for a little bit, we gathered everyone around for a beach ball icebreaker to open up conversation amongst everyone. The game consisted of a beach ball with random questions that students had to answer based on where they caught the ball. As it got darker, we distributed S'Mores supplies, and we all socialized together until it was time to leave. Overall, this was a great start to the school year, and this event created lasting friendships amongst our board and general members!



Date	Audience	Attendance	Cost
09/27/24 6:00 PM - 9:00 PM	Undergraduate Students Graduate Students	78 Undergraduate Students 0 Graduate Students	\$90.98

VIII.C. Art of Engineering

BMES at UCI participated in an Engineering Student Council (ESC) event called Art of Engineering. Just as in previous years, it was an opportunity for Engineering Student Organizations (ESOs) at UCI to share more about their organization and recruit members from the various engineering disciplines across UCI. We were able to introduce BMES at UCI to a wide audience of engineering undergraduate students about what academic and professional support we had to offer. Students were able to approach our booth and view our trifold. By engaging with us, students were able to obtain a raffle ticket to place into jars to win prizes selected by ESC. We extended invitations to students about our upcoming interdisciplinary project workshops and explained that it provided valuable hands-on technical experience that would be beneficial to all undergraduate engineering students. Additionally, our Treasurer performed a set of magic tricks during the talent show segment alongside the acts from other ESOs. Graduate students also approached us to ask about what our events entail and what BMES at UCI has to offer them. As a result, we were able to extend our reach of students and add more members to our chapter and had some fun with the performances.



Date	Audience	Attendance	Cost
09/30/24 4:30 PM - 6:00 PM	Undergraduate Students	~150 Undergraduate Students	\$0.00

VIII.D. Cross-ESO Bonfire

BMES at UCI joined the Engineering Student Council (ESC) at UCI along with various other Engineering Student Organizations (ESOs), including the Tau Beta Pi Honors Society (TBP), American Institute of Chemical Engineers (AIChE), Society of Women Engineers (SWE), Institute of Electrical and Electronics Engineers (IEEE), Anteater Combat Engineering (ACE), Society of Hispanic Engineers (SHPE), ZOTBotics' Introductory Makerspace (ZIMS), Institute of Printed Circuits (IPC), American Society of Mechanical Engineers (ASME), Theta Tau, Materials Science Club, Engineers Without Borders (EWB), Institute of Transportation Engineers (ITE), and American Institute of Aeronautics and Astronautics (AIAA), in the Cross-ESO Bonfire. The bonfire took place at the Corona Del Mar Beach. It was a great way for students across the entire school of engineering to meet people from these organizations as well as meet their peers in a casual setting. The event started with students providing rides from UCI campus to the beach, while other students were setting up food, drinks, and canopies on the beach near a fire pit. As students arrived at the beach, everyone started to mingle and settle into the beach. All the ESOs played a part in making sure all the students were welcomed in a friendly environment. There were 535 attendees, including the Dean of Engineering, which exceeded our expectations! This year, there was plenty of food and supplies for everyone, which was an improvement from previous years. The ESOs were able to bond with each other and garner a higher amount of interest in their organizations by the students who attended the bonfire event. It was the start to many more collaboration events amongst the ESOs, bringing the School of Engineering

closer together. We hope that this event remains a tradition amongst all the ESOs every year, in hopes to insight a welcoming and collaborative environment at the start of every year.



Date	Audience	Attendance	Cost
10/04/24 6:00 PM - 9:00 PM	Undergraduate Students	534 Undergraduate Students (146 BMES Members)	\$14.68

VIII.E. Spooky Trivia Night

BMES at UCI's second social event of the Fall quarter was a Spooky-themed trivia night. As the event name suggests, it was a bar-style trivia game where 50 participants were split into nine teams of about five members. After introductions and announcements, the event consisted of four rounds each in a new category. Each round was made up of five questions, and participants were given 45 seconds to answer. At the end of each round, answers were revealed and each team's scores were validated by their neighboring teams. At the end, two teams tied for first place, and thus a rock-paper-scissors standoff decided the trivia victor. The winning team won a bucket filled with 3 pounds of candy in the Halloween spirit. The participants consisted of mainly general members, consisting of mostly first and second years, and board members. The competition and team centered play allowed for easy conversation within small groups and invested involvement overall, while facilitating new connections between students. We think this was a great way for students to get to know each other at the beginning of the school year, so we hope to host more socials like these in the future.



Date	Audience	Attendance	Cost
10/09/24 6:00 PM - 7:00 PM	Undergraduate Students	45 Undergraduate Students	\$15.09

VIII.F. BMES Fall Study Hours

The quarter system at UCI tends to fly-by, and students all over campus tend to reserve rooms days, and even weeks, in advance. To provide a time and space for students who would like to study with their peers, or on their own, the BMES at UCI's Activities Coordinators planned weekly study hours. In this way, our members would have a consistent space on campus to study and ask their peers for advice on courses and assignments. During the Fall quarter, we did see a lesser turnout, but it allowed for a quieter and more focused atmosphere. However, this also gave students the opportunity to study in silence or work collaboratively with their peers. This gave attendees the opportunity to connect and make progress on academic/organizational responsibilities. Snacks were always provided at these events to motivate the study session!

Date	Audience	Attendance	Cost
10/16, 10/23, 10/30, 11/06/24	Undergraduate Students	10-20 Undergraduate students	\$17.63

2:00 PM - 3:30 PM			
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VIII.G. Pitcher Mixer

The BMES at UCI Pitcher Mixer social aimed to incorporate elements of a speed-dating type activity with improvised pitching as a game. This event aimed to create a fun and lighthearted atmosphere for attendees to socialize with new people. The first half consisted of prompted conversations as icebreakers and shuffling of participants. The second half consisted of a loose pitch competition where participants were given a prompt to come up with a type of candy that can save a halloween party. Turnout was low, but it was expected as it was midterms season. Regardless of the low turnout, the participants remained engaged with the event and each other. Although some of the pitches and ideas were not fully fleshed out, everyone did very well given the limited time at hand. In the future, we hope to have a more controlled prompt, so that there would be an element of competition amongst teams. Overall, this event was very successful, and it created meaningful and memorable moments.

Date	Audience	Attendance	Cost
10/30/24 6:00 PM - 7:00 PM	Undergraduate Students	14 Undergraduate Students	\$0.00

VIII.H. BMES x ESC x GABES Coffee Hour

In the beginning of the year, BMES at UCI received feedback from our BME Faculty that they would like to host more events to become more involved with the students. We thought that students would be more open to networking and talking with faculty in a more casual setting. A coffee hour event had been in discussion since the previous academic year, so our board members decided to act on it in the Fall! While the idea was in the works, BMES at UCI had the opportunity to collaborate with the Engineering Student Council (ESC) at UCI. In the process of reaching out to professors and graduate students, BMES at UCI handled the outreach on the BME side while ESC reached out to their contacts in the School of Engineering. The event was planned a little last minute, so we were not sure if we were able to gather enough professors and graduate students at the coffee hour. However, our BME department is very willing to support the BMES at UCI chapter, so Professors Oomen, Chesler, Hui, Digman, King, and Choi were able to make it to talk with students. We were also able to contact the Graduate Association of Biomedical Engineering Students (GABES) at UCI to collaborate with us. This expanded our reach to graduate students at the event. Undergraduate students were able to attend and ask questions about the curriculum, program at UCI, research opportunities, and careers beyond their undergraduate studies. Across our three organizations, BMES, ESC, and GABES at UCI were

able to provide attendees with bagels and coffee that lasted the entire event. It was great to see students interacting with graduate students and faculty, so this is definitely an event we would like to host once again!



Date	Audience	Attendance	Cost
11/26/24 10:30 AM - 11:30 AM	Undergraduate Students Graduate Students Faculty	30 Undergraduate Students 13 Graduate Students 6 Faculty	\$64.52

VIII.I. Finals Study Hour

For our last event of the Fall Quarter, BMES at UCI hosted a finals week study hour. We did not want to stress any of our members out with new events right before finals week. So, we decided to provide a place for our students to come and study. In this way, students could either study on their own or work with their peers in a collaborative environment. With some background music and small conversations, a lot of students were able to successfully study for their exams and finish up some final projects.

Although we expected the small turnout, all the students appreciated the space to leave their dorms or apartments to study with other students.

Date	Audience	Attendance	Cost
12/04/24 6:00 PM - 7:00 PM	Undergraduate Students	18 Undergraduate Students	\$0.00

Winter Quarter

VIII.J. BMES Winter Study Hours

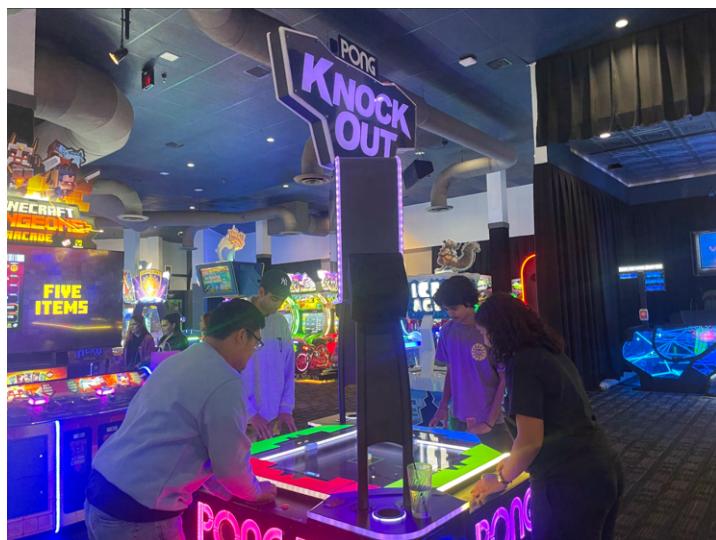
The BMES at UCI's Winter Study Hours consisted of an unstructured study session, occurring once a week before General Meetings. The study hours were held at UC Irvine's Science Library Collaboration Zone, a large open space area with tables and outlets that attracts a lot of students regularly. Depending on the week during the quarter, turnout was usually around 20 students, with the first study hours having the greatest attendance. The largest increase was around midterm season with our attendance increase by 10 more on average. Snacks were also brought to each study hour for students to enjoy during the event while working hard on their projects, homework, or study sessions. Regardless of the turnout, the study hours were effective in creating spaces for members to talk and bond while working on homework, studying, and various projects. Study Hours was created to be a resource BMES members could take advantage of, and with the venue change from Fall quarter, our study hours are becoming more and more of a valuable resource the general members are provided with the event providing memories, fun times, and homework help.



Date	Audience	Attendance	Cost
01/08, 01/15, 01/22, 01/29, 02/05, 02/12, 02/19, 02/26, 03/05, 03/12/25 4:00 PM - 6:30 PM	Undergraduate Students	15-37 Undergraduate students	\$91.27

VIII.K. Dave & Busters Social

BMES at UCI held a social at Dave & Busters, an arcade at the Irvine Spectrum Center. This event followed the Mentorship Panel Discussion, with the intention of increasing student relationships through fun activities. Our target audience were our general members, specifically mentorship groups, who were at the previous event. The idea behind this event was to foster a fun and competitive environment in which people could get to know each other better. In this way, our members would get the chance to decompress in the middle of the Winter quarter. The social started by organizing rides amongst students to transport people from UCI campus to the Irvine Spectrum Center. While we were waiting for everyone to arrive, small groups explored the shopping center and even got Yogurtland before we all met at the arcade. Students were encouraged to explore the arcade in small groups to have fun playing games and winning prizes. Students were welcome to stay as long as they wanted, but students were all able to get back to UCI campus safely. The social was a huge success, as it was the start to many great memories and encouraging friendships among the BMES at UCI general members with the entire experience being a great way to end the night amidst a stressful quarter.



Date	Audience	Attendance	Cost
01/22/25 8:00 PM - 9:30 PM	Undergraduate Students	18 Undergraduate Students	\$0.00

VIII.L. Presentation Night Social

The BMES at UCI's Presentation Night Social was an opportunity for attendees to make and present their own presentations on something that they loved to celebrate Valentine's Day. This event was a

perfect opportunity for members to bond with one another, show off their creativity, and tell us about who or what they loved. Despite a lower turnout than expected, about 13 attendees due to midterm exams occurring throughout the week, all participants seemed to have a lot of fun. The light atmosphere, the laughs shared, and the fun each and every participant had made for a memorable experience. In addition to just presentations there was also a competition on who can create the best presentation based on creativity, delivery, and slideshow quality with the best presentation winning a cash prize. The presentation ranged from celebrating fellow board members, celebrities, and hit songs. The winning presentation was in fact on “What is Love?” by Haddaway, showcasing the general members’ creativity and passion. Overall, the BMES Presentation Night social was a memorable and fun experience that had achieved what is meant to do: bring BMES at UCI members together.



Date	Audience	Attendance	Cost
02/12/25 6:30 PM - 7:30 PM	Undergraduate Students	13 Undergraduate Students	\$60.00

VIII.M. E-Week Kick-Off Fair

On Week 8 of every Winter Quarter, the UC Irvine Henry Samueli School of Engineering and the Engineering Student Council (ESC) host Engineering Week (E-Week). The purpose of this event is to celebrate engineering and to showcase all the resources and support that students can receive on campus. BMES at UCI, along with around 5 other ESOs, joined ESC to booth and share more information about our organization. This was a great opportunity for us to promote the resources and events we have available for students, especially for students who were interested in joining BMES at UCI later in the year. BMES at UCI hosted a spinner event, where we gave out candy, shirts, stickers, or bonus raffle tickets for students who talked to us and spun the spinner. We were also able to promote

our Open MIC: Medical Innovation Competition that was coming up in the week following the event. We also gave out stamps for the stamp card that allowed students to receive a free School of Engineering shirt! This event also fostered even further connections between ESOs, as we would all visit each other and introduce ourselves. Overall, this was a very fun event, and more people were able to join us at our Open MIC later in the quarter.

Date	Audience	Attendance	Cost
04/24/25 10:30 AM - 3:00 PM	Undergraduate Students	~150 Undergraduate Students	\$14.99

VIII.N. UCI Homecoming

Every year, UC Irvine hosts a Homecoming, where alumni and their families are invited back to campus to enjoy activities hosted by their respective departments, and a school-wide fair. This year, the UC Irvine Henry Samueli School of Engineering hosted their own pre-Homecoming event, where alumni and their families were invited to a speaking event and lunch hosted by the Dean of the school. After the lunch, each department hosted their own event for their alumni. BMES at UCI supported the Department of Biomedical Engineering in putting this event together for the first time, alongside the Graduate Association of Biomedical Engineering Students (GABES) at UCI. Together, we planned a TedTalk style event, where a few students presented the research they do at UC Irvine. We hoped to showcase how the Department of Biomedical Engineering is supporting its students in research and beyond. A total of 4 graduate students and 4 undergraduate students participated in these presentations. We first started with a short introduction about the department, BMES at UCI, and GABES at UCI to showcase the resources and support available to students. Then, we went into the research presentations, where each student presented on a unique field of research, from cardiovascular engineering, to optics, to fluorescence microscopy. All the alumni and their families thoroughly enjoyed the event, and we were able to answer questions that the alumni had about our research, the program, and ways their own children could get involved at UC Irvine!



Date	Audience	Attendance	Cost
03/01/25 12:00 PM - 1:30 PM	Undergraduate Students Graduate Students Alumni & Family	4 Undergraduate Students 4 Graduate Students 15 Alumni & Family	\$0.00

Spring Quarter

VIII.O. Engineering Awards Banquet

BMES at UCI was invited to the Engineering Student Council's Annual Engineering Awards Banquet as nominees and finalists for the Best Mentorship Program, Best Industry Event, Best Social Event, Best Outreach Event, & Best Collaborative Event, for our Mentorship Program, annual Industry Night, Welcome Bonfire, Jr. BME Outreach Program, and the Cross-ESO Project Symposium, respectively. This was an event where students and faculty would come together to celebrate individuals and organizations that have created a significant impact on the UCI engineering community. Individual awards were presented to the Undergraduate, Graduate, and Professor of the Year for each department. We were excited to see that our President was a finalist for the Biomedical Engineering (BME) Student of the Year and that our faculty advisor was a finalist for the BME Professor of the Year. Once the organizational and individual awards were presented by the Dean of Engineering and respective Department Chairs, food was served to the attendees. After the awards, the attendees were able to congratulate and celebrate the impacts everyone has made on the engineering community as a whole. The BMES at UCI Board Members had a fun time socializing amongst themselves and other student

organizations' members. The event was a great success, and congratulations to our President and faculty advisor who took home the awards for BME Undergraduate and Professor of the Year!



Date	Audience	Attendance	Cost
04/01/25 5:00 PM - 7:30 PM	Undergraduate Students Graduate Students Faculty	~50 Undergraduate Students ~20 Graduate Students ~10 Faculty	\$0.00

VIII.P. BMES Spring Study Hours

The BMES at UCI's Spring Study Hours will consist of an unstructured study session, occurring once a week on Tuesday afternoons. Depending on the week during the quarter, turnout will likely fluctuate. The study hours aim to be effective in creating spaces for members to talk and bond, while working on homework and studying. This secluded yet open environment will also enable students who commute to have a guaranteed place to study on Tuesdays. As we hope to foster a welcoming environment, these study hours are open to the public! Refreshments will also be brought to each study hour for students to enjoy, and these snacks will help students stay energized and focused as they exercise their brains. We hope to see students make great use of the space and time we have reserved for working and studying alone or with their peers. We will continue to use the same venue as Winter quarter as it proved to be a space in which students felt comfortable in!

Date	Audience	Attendance	Cost
04/08, 04/15, 04/22, 04/29, 05/06, 05/13, 05/27/25 12:00 PM - 1:30 PM	Undergraduate Students	15-30 Undergraduate Students	\$150.00

VIII.Q. Celebrate UCI

Celebrate UCI is an annual event hosted by the Office of Admissions at UCI for all the newly admitted students to celebrate their admission and learn more about opportunities, organizations, experiences, and life at UCI. Hundreds of booths are set up for departments, resource centers, and student organizations to share what they have to offer to prospective students. This year, the Henry Samueli School of Engineering managed all the operational logistics, including providing us with a space, table, chairs, and food! BMES at UCI was invited to represent our chapter at the event. Our goal is to promote our biomedical engineering program at UCI: the curriculum, resources, and career-building opportunities the department and BMES at UCI has to offer. Our board members will attend the event with the purpose of sharing their knowledge, experiences, and professional growth with students and their families. We plan to hand out BME-themed stickers and BME Day flyers at our booth to the visitors that stop by our table. This event will, not only, help us promote our student chapter, but also, will inspire students to join our supportive biomedical engineering community at UCI.

Date	Audience	Estimated Attendance	Estimated Cost
4/19/25 8:00 AM - 3:00 PM	Incoming Students Parents Parents & Families	200 Incoming Students 80 Parents & Families	\$155.00

VIII.R. BMES Ball Kick-Off

BMES at UCI's Ball Kick-Off is a social event designed to generate excitement and engagement for our highly anticipated annual BMES Ball. Hosted during our weekly meeting time, this kick-off will introduce members to the spirit and theme of this year's ball: La La Land. We anticipate around 20 participants, who will take part in an interactive scavenger hunt that gradually reveals the event's theme through fun clues and activities. With this newfound excitement and welcoming atmosphere, we hope to elicit interest in our Annual Ball event. In addition to building anticipation for the ball, the event will provide a relaxed environment where members can connect, socialize, and strengthen their sense of community within BMES.

Date	Audience	Estimated Attendance	Estimated Cost
04/23/25 6:00 PM - 7:00 PM	Undergraduate Students	20 Undergraduate Students	\$80.00

VIII.S. Mocktail Mania

Mocktail Mania, hosted by the BMES at UCI Activities Intern, is an interactive social event designed to promote the BMES Ball with an engaging event involving friendly interaction among the BMES community. This event will start with an introduction and explanation of mocktail making. Then, attendees will split up into groups of 4-5 people and appropriate ingredients will be handed out. Next, each group will be instructed to craft their own, uniquely named, mocktail from a mix of beverages. This will be followed by a mocktail business pitch, in which each group will name and present their special mocktails. Finally, the judges will award the best group a candy prize, and the event will be concluded with a BMES Ball advertisement. We expect around 30 participants to gather in groups to work in small groups to craft and present their own unique mocktail. The open environment of this social event will hopefully encourage friendly conversations among members. Additionally, this event aims to promote the upcoming BMES Ball, allow members to connect, and strengthen bonds within the BMES community even amidst the end of midterms season.

Date	Audience	Estimated Attendance	Estimated Cost
05/20/25 6:00 PM - 9:00 PM	Undergraduate Students	30 Undergraduate Students	\$80.00

VIII.T. BMES Ball

The BMES Ball is the largest social event hosted by BMES at UCI. It is open to everyone, to celebrate the end of the year and all the accomplishments that students have achieved throughout the year. It highlights the organization and is the culmination of the social and welcoming environment that our BMES at UCI Activities team has worked so hard to curate amongst our members and beyond. Before the Ball, BMES at UCI board members will be helping with set-up, including the multitude of decorations and picking up food from BJ's Brewhouse to be served. Within the first hour or so, attendees will be checking-in with the volunteers at the door. Tickets will be available during presale, after our Ball Kick-off, and for at the door. As the event begins, everyone will be welcome to get food, mingle, play mini-games, or take photos at the photobooth! After everyone settles in, we will introduce the event, welcome our new board members for the 2025-2026 school year, present mentorship

awards, and end with a raffle for some amazing prizes. After the speaking portion, we will open up the dance floor to all our attendees to have fun. Our goal is to invite undergraduate students, graduate students, and alumni to celebrate the end of the academic year. We hope to end the 2024-2025 year with a great event!

Date	Audience	Estimated Attendance	Estimated Cost
05/20/25 6:00 PM - 9:00 PM	Undergraduate Students	130 Undergraduate Students	\$6295.55

IX. Inter-Chapter Activities

Regarding other Chapters, BMES at UCI made efforts to expand their connections and collaborate on social events. The aim of these events was to bring schools and their students together under the common interest of biomedical engineering in stress-free, friendly spaces. Some events, such as the UCI x UCLA Beach Social, were purely for the purpose of making more friends from other schools and mutual relaxation from the stresses of school. Other events like the Cross-Chapter Trivia with OSU and other schools incorporate the core principles of BMES with fun questions about engineering and pop culture, encouraging friendly competition and uniquely engaging students to meet other BME students across the country. An aspect that has not been previously incorporated into the Inter-Chapter Activities will be introduced with this year's upcoming BMES Bash. This large-scale in person event will allow for professional networking between undergraduates of many schools in California as well as social activities like sports and eating food together. In the future, it would be incredibly beneficial to make these social events traditions between schools to deepen their connection and open up the road to other collaborations.

Table 9: List of Inter-Chapter Activities.

Date	Event
10/12/24	UCI x UCLA Beach Social
11/18/24	Cross-Chapter Trivia
4/26/25	California Cross-Chapter BMES Bash

IX.A. UCI x UCLA Beach Social

This event was a collaborative effort between the BMES chapters at UCLA and UCI. After coordinating together over email, each school brought along club members to Huntington Beach. This was a great way to kick off the school year, as students had the opportunity to talk to other BMES chapters casually and network. Snacks/beverages and transportation for each student were provided by both organizations. Students enjoyed their time in the sun and played various beach sports/games including spikeball and beach volleyball. The success of this event has sparked an interest from club members in more future collaborations with other schools in the area. An improvement could be made by collaborating with more than one other school, such as all of the neighboring schools around a halfway point. The timing of this event was appropriate for the start of the school year, and opened a line of communication between the schools for future events.



Date	Audience	Attendance	Cost
10/12/24 2:00 PM - 4:00 PM	Undergraduate Students	27 Undergraduate Students	\$10.28

IX.B. Cross-Chapter Trivia

BMES at UCI collaborated with Ohio State University (OSU) for a trivia night collaboration, from 5-6pm. The objective of the event was to create a light, social environment for members of each chapter to get to know other students and have a friendly trivia competition. To start, OSU gave a brief overview of the night before splitting up attendees into breakout rooms. Students were given some icebreaker questions and were able to get to know each other. The smaller groups allowed for more personal conversations and were successful in providing a no stress atmosphere for members from differing chapters to converse. The second half of the event was an online trivia competition. Attendees were told to join an online quiz and participated in answering 30 questions, whose categories ranged from general trivia to BME specific questions. The competition was close and BMES at UCI was proud to take home first! Overall, the event was enjoyable and was a great way for students to socialize with people of similar passions and interests. In the future, such an event is sure to be repeated.

Date	Audience	Attendance	Cost
11/27/23 4:00 PM - 5:00 PM	Undergraduate Students (Ohio State University, New York University, UCI)	15 Undergraduate Students	\$0.00

IX.C. California Cross-Chapter BMES Bash

The BMES Chapter at San Jose State University reached out to BMES at UCI and other Chapters in California expressing an interest in organizing a state-wide social event during Spring Quarter. The schools that agreed to participate met periodically from Fall through Winter to discuss logistics and secure a location. California Polytechnic State University in San Luis Obispo was chosen as a midway point for most of the schools. This day-trip event will serve as a great opportunity for students in BME to meet students from other schools. Each school will contribute a portion necessary to provide food in bulk, possibly from Costco, and other costs for the event. Additionally, each school is responsible for contributing to a different aspect of the event (food/drink, venue, parking, etc) to reduce overall costs. After an introductory session in which each school presents about their BME program, there will be time allotted for students to mingle, view booths and research posters, and play games outdoors. UC Irvine, along with a few other schools, plan to bring their school's merchandise to give out as part of the event. Overall, this is an exciting event that has never been done on such a large scale and the expected turnout is between 100-120 students from all of the schools.

Date	Audience	Estimated Attendance	Estimated Cost
April 26th, 2025	Undergraduate Students (San Jose State University, Cal Poly SLO, UC Davis, UCLA, UC Berkeley, UCI, UCSD, USC, CSU Long Beach, Santa Clara University)	100-120 Undergraduate Students	\$50

X. Outreach Activities

The outreach endeavors at BMES at UCI have continued to see growth over the years. The Jr. BME Outreach Program took place during the Fall and Winter academic quarters, eliciting interest in biomedical engineering and college education. Jr. BME workshops were hosted bi-weekly on Sundays. Workshops were centered around a variety of topics, from technical skills to creating and pitching medical device ideas. Students were also encouraged to apply the skills they learned from these workshops to a project presented at the end of the program. Efforts in the Spring quarter were dedicated to the largest events for BMES at UCI Outreach, such as BME Day, where incoming UCI and local high school students learn more about the BME field and the program at UCI. The event will consist of a multitude of panels, hands-on activities, and lab tours. Participation and retention were over double this year, and we hope to see this trend continue! Additionally, BMES at UCI outreach efforts extend to charities in the local community, while fostering an inclusive environment in the BME community through events like Charity Field Day. We hope to continue to support our community and create new charity endeavors in the future as well.

Table 10: List of Outreach Activities.

Date	Event/Activity
10/13/24	Jr. BME: Welcome to Jr. BME
10/27/24	Jr. BME: Onshape Workshop
11/09/25	OC Food Bank Event
11/12/24	Panel with Leigh High School
11/17/24	Jr. BME: Arduino Workshop
11/24/24	Jr. BME: Research Skills
01/26/25	Jr. BME: Business Skills
02/16/25	Jr. BME: Pitching Skills
02/23/25	Jr. BME: Career Panel
02/25/25	AntGineering
03/09/25	Jr. BME: Presentations and Awards

04/20/25*	BME Day
TBD*	Charity Field Day
05/18/25*	IGNITE

* Future Events

X.A. Jr. BME Workshop: Welcome Meeting

BMES at UCI kicks off the Jr. BME Outreach Program with an introduction to the biomedical engineering field, the program, and to UCI. We were very very surprised with the turnout at this workshop, with 158 students in attendance, which is almost twice as much as the previous academic year! The goal of this workshop was to give the students an overview of our program, discuss what BME is, and for them to get to know each other. We ended after an hour of overview and a team building exercise, we concluded our first workshop with a campus tour. This meeting allowed for us to introduce the innovative group project, where students have the option to break into groups to work ideating a novel medical device to address an unmet clinical need. We also informed them about the certificates they could receive at the end of the program based on their attendance or completion of the project. Due to the unexpected turnout, we had to think on our feet and change our plans for the campus tour. Instead of doing one big group, we split the students into 3 groups, each with a different leader. The groups went in different directions of campus so that they didn't clash with each other. We had a large turnout of volunteers from both board and outreach committee, which allowed us to supervise all the students. Overall, it was a great start to our Jr. BME program!



Date	Audience	Attendance	Cost
10/13/24 2:00 PM - 4:00 PM	High School Students	154 High School Students	\$73.75

X.B. Jr. BME Workshop: ONSHAPE

This was BMES at UCI's second Jr. BME workshop for the Fall quarter and during this workshop we taught our students Onshape, or Computer-Aided Design (CAD). We had a turnout of 140 students, which was a bit smaller than the first workshop, as expected, but it was still almost twice as much as our biggest turnout last year. In order to accommodate the large turnout, we booked another room on campus, the Colloquia, and split the groups into beginners and advanced tracks. We did this by asking students if they had previous experience in CAD, and if so, to move to Colloquia. In our original lecture hall, we had the beginner track where we taught the basics of Onshape, and the students followed along and built a part. We had to go a lot slower than expected, but in the end, we were able to complete the basic part with all our students! In the advanced track in Colloquia, we took a more hands-off approach, and we let the students attempt to build a more advanced part. We gave them the engineering drawings and some guidelines, but students were asked to figure out how to build the part on their own. If they needed help, we had a few volunteers available to answer their questions. A lot of volunteers showed up, which was really helpful as they were able to go around and help anyone who got lost while following the tutorial. We had a lot of additional challenge parts prepared in case students were able to complete the first parts quickly. Even though we weren't able to get to them, it was great to be prepared, and students were able to take a look at our slides on the website to move on to more complicated parts!



Date	Audience	Attendance	Cost
10/27/24 2:00 PM - 4:00 PM	High School Students	137 High School Students	\$73.75

X.C. OC Food Bank Event

Every year, the Engineering Alumni Society (EAS) at UCI hosts a food packing event at the Orange County Food Bank. This year, they reached out to several Engineering Student Organizations (ESOs) and larger centers on campus in order to make this event a collaborative effort, including the American Institute of Chemical Engineers (AIChE), Institute of Electrical and Electronics Engineers (IEEE), Society of Women Engineers (SWE), Tau Beta Pi Honors Society (TBP), Engineers Without Borders (EWB), UCI Alumni Association (UCIAA), Engineering Student Council (ESC), Office of Access and Inclusion, and the School of Engineering. The goal of this event was to help out the community through packaging food at a local food bank for underserved populations around Orange County. This year, the collaboration of multiple organizations also fostered stronger connections between the undergraduate students and alumni at the event. We hope to be a part of this event and provide more support in years to come!

Date	Audience	Attendance	Cost
10/27/24 2:00 PM - 4:00 PM	Undergraduate Students	~30 Undergraduate Students	\$0.00

X.D. Jr. BME Workshop: Arduino

Our third Jr. BME workshop for the fall quarter was an Arduino workshop! We had 120 students show up, so we unfortunately started to see a bit less retention, but our turnout was still a great improvement from that of last year. Similar to the previous workshop, we planned for a beginner and advanced track. However, we predicted that splitting the students into the two tracks in separate rooms would complicate the workshop, such as not every student being able to sit and participate in the workshop. We decided to combat these potential issues by walking through the beginner track activity. For students who were more comfortable with Arduino, we made the advanced activity available on our website, so they can work on more hands-on activities at their own pace. Due to the high turnout, we asked students into groups of 7-8 people, so that each group could receive an Arduino board and some supplies to work with. The workshop was organized in a way that we provided a bit of instruction on a topic and alternated it with a few minutes of work time so students could catch up. At the end of each topic, we had them complete a short challenge to apply their newfound knowledge!

Additionally, to prepare for students who finished the activities quite quickly, we prepared additional challenges at the end of the slide deck that students could work on. Although many students were unable to attempt these challenges, they provided great future references for students who would like to work through them at home. Overall, this event was very well organized. However, we would like to make the distribution of Arduino parts more efficient in the future. Additionally, we would like to order a lot more supplies to accommodate our growing student population.



Date	Audience	Attendance	Cost
11/17/24 2:00 PM - 4:00 PM	High School Students	120 High School Students	\$73.75

X.E. Panel with Leigh High School

BMES at UCI hosted a panel in partnership with the Leigh High School BMES Chapter in San Jose. This was a panel discussion hosted on Zoom to discuss biomedical engineering and what it looks like in college and beyond. We had 6 of our board members present, representing a wide range of backgrounds and experiences. In order to prepare for the panel, we sent the Leigh High School students a Google Form and gathered some commonly asked questions. During the event, we took these responses and went over the 6 most common questions. After that, we proceeded to an open Q&A session. In the future, we hope to host panel discussions like these with multiple high schools to garner more interest, curiosity, and perspectives in BME, so that students can ask more questions and get them answered by undergraduate students who are more than willing to spread their knowledge.



Date	Audience	Attendance	Cost
11/12/24 5:30 PM - 6:30 PM	High School Students Undergraduate Students	15 High School Students 6 Undergraduate Students	\$0.00

X.F. Jr. BME Workshop: Research Skills

For our final Jr. BME workshop of the fall quarter, our BMES at UCI Outreach Coordinators discussed important skills in research and gave students time to work on their group projects. For the first 20 minutes of the session, we discussed important research skills, such as finding a good research question, how to tell if a source is credible, and how to use databases to find scholarly articles. For the following 30 minutes, students were given a prepared worksheet to fill out. They were instructed to find a scholarly article, either pertaining to their project or their interests, and answer a few questions about it. Some questions included asking about how they knew a source was credible or what the research question that was driving the researchers was. For the second hour of the workshop, students were given time to work on their projects once again. We also went around and gave feedback to groups who had already turned in their proposals. Overall, this was a workshop where the students were able to work on their activities on their own and were able to ask questions. However, we would like to increase the amount of times we check in with the students during the independent work-period so that students are not left alone for too long. Additionally, we hope this checking-in or increase in engagement will keep the students actively working on their worksheet.

Date	Audience	Attendance	Cost
11/24/24 2:00 PM - 4:00 PM	High School Students	93 High School Students	\$73.75

Winter Quarter

X.G. Jr. BME Workshop: Business Skills

BMES at UCI's Outreach team started off the winter quarter with a Business Skills workshop! Our goal for the winter quarter was to focus on the entrepreneurship side of BME to help students gain a new perspective of the healthcare field while working on their projects. At first, we thought of doing a business skills workshop, where we would teach students things like FDA regulatory pathways, intellectual property, go-to-market strategies, etc. However, when planning the content, we wanted to incorporate more skills and information that would directly help the students at their current level of education in high school. So, we decided to use part of the workshop to discuss resume skills, where we taught them how to format their resumes and what they should include to stand out in a pool of applicants. We thought that this would be more applicable to their lives and help them in the near future. There were about 80 students who attended this workshop, so we saw less retention, but still increased attendance! Overall, the students were very engaged with the presentation on resumes, and when given the opportunity to work on their resumes, they asked a lot of questions. Our many volunteers were able to engage well with students and answer students' questions as well. In the second half of the workshop, we gave the students time to work on their projects, providing them with more guidelines on the expectations for their projects as a whole. Unexpectedly, even when given free time to work on their projects, students stayed on task and were quite engaged. Overall, this was a good start to the Jr. BME workshops for this quarter!



Date	Audience	Attendance	Cost
01/26/25 2:00 PM - 4:00 PM	High School Students	80 High School Students	\$73.75

X.H. Jr. BME Workshop: Pitching Skills

For our second Jr. BME workshop for the quarter, the BMES at UCI Outreach team decided to host a pitch workshop. When planning the workshops for the quarter, we had set the date originally for February 6th. Unfortunately, this clashed with the Super Bowl. As this also occurred last year, this is definitely something to keep in mind during the planning stages in future years. The workshop ended up on a long weekend, but we had a higher turnout than the first workshop! This workshop was meant to teach students how to pitch their ideas in preparation for their project presentations. The first 30 minutes were spent teaching students what makes a good pitch. Then, they were given an hour to work in groups on a unique pitch of their own. We, then, spent the last 30 minutes listening to each group's presentations. Overall, students were highly engaged and spent the entire hour efficiently working on their pitches. They came up with extremely creative ideas that incorporated the lessons we taught in the first 30 minutes. However, we underestimated how much time the pitch presentations would take. Unfortunately, some groups were unable to present, so in the future, we hope to account for this lack of time. Another change we could make is to assign groups, so that there is an even number of people in each group, ensuring that groups have effective discussions amongst their peers.



Date	Audience	Attendance	Cost
02/16/25 2:00 PM - 4:00 PM	High School Students	82 High School Students	\$73.75

X.I. Jr. BME Workshop: Career Panel

For our third Jr. BME workshop for the winter quarter, our BMES at UCI Outreach team hosted a professional panel. Our goal for this workshop was to help our students learn more about what career paths are available if they choose to pursue an education in biomedical engineering.. We ended up having three panelists: an Edwards Lifesciences employee, a BME PhD student at UC Irvine, and an undergraduate BME premedical student. Ideally, we would have also liked to have a medical student to offer their expertise and experience in graduate school. Cold-emailing our contacts proved to be difficult in the beginning stages of the workshop, so we hope to invoke more personal connections and contacts to come out to the panel earlier in the planning stages of the workshop. This workshop was a success, as there was a high turnout of students for this workshop. Students were very active, raising their hands to ask their own questions in the first half of the workshop, but a lot more students preferred to network with the panelists in the second half of the workshop to ask questions one on one, during the scheduled project work-time. This impromptu individual networking session was unexpected, but our panelists were kind enough to stay and answer our students' many questions. In the future, we hope to prepare for post-panel discussions! Overall, the students were extremely engaged

with the panel, and they seemed to learn more about careers in BME after talking with the panelists which we were extremely happy about!



Date	Audience	Attendance	Cost
02/23/25 2:00 PM - 4:00 PM	High School Students	72 High School Students	\$73.75

X.J. AntGineering

Every year, the Engineering Student Council (ESC) at UCI hosts AntGineering during their Engineering Week. This is an outreach event where high school students are invited to the UCI campus to partake in lab tours and hands-on activities, hosted by various engineering student organizations (ESOs) from UC Irvine, to learn about the different fields in engineering. BMES at UCI hosted a prosthetic hand activity. The goal of the activity was to teach the students about joints in the hand and give a basic overview of how real-life prosthetic hands work. This activity consisted of creating a paper hand and using straws to mimic the bones in the fingers. Students then strung strings through the straws to mimic the muscles that can bend the bones in the fingers to recreate the grabbing functionality of the hand. This was a very well-organized event! The students from 4 high schools were placed in groups of 15-20 students and rotated between stations, manned by different ESOs hosting a

multitude of activities, including building catapults. In addition to working on the activity, they had the opportunity to ask us questions about BME, engineering, and college life. In the future, we hope to streamline the activity as the 15-minute rotations were not long enough to fully complete the activity, including pre-cutting straws and string for students to grab quickly.



Date	Audience	Attendance	Cost
02/25/25 10:00 AM - 2:00 PM	High School Students Teachers Volunteers	~150 High School Students ~ 15 Teachers ~ 35 Volunteers	\$0.00

X.K. Jr. BME Workshop: Presentations and Awards

For our final Jr. BME workshop of the year, the BMES at UCI Outreach team hosted our students' group presentations for their group projects that they have been working on throughout the program. The purpose of this workshop was for students to share their work with their peers and to hand out certificates to reward them for their participation and engagement. Prior to the workshop, we had figured out how many groups were presenting and the order in which they would present, which helped the presentations run smoothly. We had 12 groups present their projects, which was a big improvement from last year! Overall, the presentations were very nicely done, and it was interesting to see what medical device ideas our high school students came up with and how they incorporated their new skills that they learned throughout the program. A lot of groups had CAD models or videos of their Arduino projects to show how their potential product would work. We also had time for some questions for some presentations, and the students responded well to those! The long duration of presentations made students a bit restless, so we hope to find a better way to keep students engaged, like having them ask questions to other groups or completing an activity to engage with the presentations. Even though we allocated 30 minutes to hand out certificates, we ended up finishing the

presentations right at the end, so we had to rush through handing out the certificates. We were able to think on our feet, and hand out over 100 certificates in around 10 minutes. Most students stayed back to take a group photo as well! This was a great conclusion to our Jr. BME program for this academic year, and we received a lot of positive feedback from students on how they learned a lot and left the program with a piqued interest in BME. Students also expressed interest in other programs we were hosting, and we were able to tell them about BME Day and IGNITE for the spring quarter. We look forward to seeing them there!



Date	Audience	Attendance	Cost
03/09/25 2:00 PM - 4:00 PM	High School Students	81 High School Students	

Spring Quarter

X.L. BME Day

Over the past couple of years, our BME Day event has seen great success. This year, we were very excited to host our third annual BME Day! The purpose of BME Day is for prospective UCI BME and BME Premed students, as well as local high school students, to visit the UCI campus and gain a better perspective on the biomedical engineering field, the program at UCI, and what college life would be like. We are planning for this event to be free of charge to make it accessible for everyone! Throughout this event, we planned to have a multitude of professional panels, lab tours, a poster session, and hands-on activities. The overall goal for this event is to educate younger students and their families about biomedical engineering at UCI and to show the experience that is offered here. Additionally, we hope that this is an opportunity for the students to start broadening their career search!

The planning for BME Day this year started much earlier than in the previous years. Before we could start reaching out to people and curating our liability waivers, we needed to plan an itinerary. Using feedback from last year, we finalized our venue to be the Interdisciplinary Science and Engineering Building (ISEB) on campus. All of the events and most of the lab tours will take place in this building to keep logistics as simple as possible. We adjusted the itinerary from previous years to replace an admissions panel with a resources panel, where we would have counselors, peer advisors, and representatives from various centers across campus come together to speak to how students can be supported on campus. We decided to keep the event the day after Celebrate UCI, UCI's version of Admitted Students Day. However, this means that BME Day would be on Easter Sunday. This may result in a reduced turnout, but we hope to combat this by starting our advertising much earlier than before. Although Easter Sunday is a religious holiday that many people celebrate, keeping BME Day the day after Celebrate UCI would allow for students and families coming from out of town to extend their stay for a bit to learn more about the BME program while they are in town. To put our early advertising plan into play, we kick-started our risk and liability waiver creation process with the Student Outreach and Retention (SOAR) Center much earlier. We wanted to receive a completed waiver more than a week in advance of the event. This plan was a success as we received our waiver a month before the event, in hopes of families planning their trips to Irvine accordingly.

Regarding the event itself, we plan to have a variety of panels and activities to keep students and families engaged throughout the day. This year, we plan to have 5 panels. In previous years, the Research Panel, where undergraduate and graduate researchers discuss BME research and how to get involved, and the Professor Panel, where 4-5 BME professors speak about the program from their perspective, were the most popular, so we decided to keep these panels as is, although we may switch the order due to their popularity. The BME Careers Panel has also seen quite a lot of interest as industry professionals and medical/graduate students are invited to speak about their experiences at UCI and beyond. Our alumni are always willing to come back and speak, so we hope to continue to invite them back. We are also planning to host a College Life panel, where we will invite a variety of students, including a Resident Assistant, to speak about life here at UCI outside of academics. A new panel we plan to host is a Resources Panel, where we would like to invite representatives from various centers across campus to describe how students can be supported on campus. We hope to invite representatives from the counseling center (including counselors, peer advisors, or student success coaches), SOAR Center staff, Learning & Academic Resource Center (LARC) tutors, the Office of Access and Inclusion, and other resource centers on campus. The goal of this new panel would be to showcase resources and opportunities on campus for students to receive assistance academically and personally.

Alongside the panels, we will be conducting lab tours throughout the day. We plan to have tours of the Cardiovascular Innovation and Research Center (CIRC) and other labs on campus hosted by undergraduate and graduate students to talk about their research and show students/families a little insight into what life in the lab looks like at a great research institution. We are hoping to host 2-3 different lab tours to showcase different aspects of BME research. Additionally, we will have a few posters set up in the lobby to show the different research and capstone projects that are taking place on campus. In this way, as attendees are transitioning from event to event, they can read over a few posters to learn more about what students are doing outside of the classroom.

For students looking to participate in more hands-on activities, we plan on having a few short workshops in Arduino and Computer-Aided Design. Through these activities, we hope to showcase the skills that BME students would learn as part of their education at UCI. Additionally, we hope to stimulate students' interest in the event by incorporating engagement in an activity rather than listening and asking questions at a panel. Undergraduate students will be hosting these activities, so students will also get the opportunity to ask questions about BME at UCI, experiences, and how skills are applied to the real world.

Concerning day-of-event logistics, we have opened up a volunteer form to all of our members. We hope to involve undergraduate students who are interested in helping out with BMES at UCI Outreach endeavors. We hope to recruit enough volunteers to station them at the various panels, lab tours, and activities that are going on throughout the day. In this way, all the BMES at UCI board members will not have to be in two places at once. We hope that our volunteers will also gain something valuable from this experience, such as mentorship or newfound knowledge from panels.

Overall, we hope to create the best version of BME Day this year, improving upon feedback we received over the past couple of years. We are excited to see all the students and families in attendance to learn more about the program we appreciate and are a part of!

Date	Audience	Estimated Attendance	Estimated Cost
4/20/25 9:00 AM - 4:00 PM	High School Students Parents	200 High School Students 100 Parents	\$6000

X.M. Charity Field Day

BMES at UCI will host Charity Field Day at a local park as a fundraising and community-building event for biomedical engineering students and faculty. The event will be designed to bring together members of the BME community in a relaxed, outdoor setting while raising funds to support a local charity. Participants will pay an entrance fee, with all proceeds going directly to charity. The event will feature a variety of casual games and sports, including basketball, pickleball, and tennis, open to all skill levels. Food and refreshments—including pizza, cookies, chips, and drinks—will be provided for purchase for all attendees, creating a fun and welcoming environment for socializing and friendly competition. These proceeds will also be donated! Charity Field Day will offer an opportunity for students and faculty to connect outside of the classroom while contributing to a good cause. Our faculty continues to support this event due to the connection that it builds within the BME community at UCI. We hope to host a successful event once again!

Date	Audience	Estimated Attendance	Estimated Cost
5/4/24 11:00 AM - 2:00 PM	Undergraduate Students Graduate Students Alumni Faculty	20 Undergraduate Students 5 Graduate Students 5 Faculty	Estimated Funds Raised: \$250

X.N. IGNITE

BMES at UCI will be hosting IGNITE, a collaborative K-12 outreach event with other Engineering Student Organizations (ESOs): Society of Women Engineers (SWE), Society of Hispanic Professional Engineers (SHPE), Latinos in Science and Engineering (MAES), National Society of Black Engineers (NSBE), American Institute of Chemical Engineers (AIChE), Engineering Student Council (ESC), and American Society of Mechanical Engineers (ASME). As there are a lot of aspects to coordinate such a large collaborative effort and event, event planning started early in the Winter quarter.

This year, we were able to receive support from the Office of Access and Inclusion (OAI) once again. They are providing us with support in booking venues and purchasing items, such as food and supplies, for the event. IGNITE will be an all-day event, where middle and high school students and their families will be invited to the UCI campus to engage in activities that will invoke a higher level of interest in the science, technology, engineering, and math (STEM) fields. The goal for this event is to create an accessible and engaging environment for students to learn more about what engineering and college have to offer!

This event will start off with a welcome ceremony, where the purpose of IGNITE, an overview of the day, and safety expectations will be discussed. Then the event and activities will begin! BMES at UCI, alongside ESC at UCI, is in charge of coordinating lab tours across campus. We are aiming for 20 lab tours total across various engineering disciplines, including biomedical, mechanical, aerospace, and chemical. The tours themselves will be conducted by graduate students or faculty in the labs. The day-of plans include lab tour rotations of 15 minutes each across the 3 hours scheduled for tours.

Simultaneously, each ESO will be hosting an activity booth that students can go around and participate in. Each organization will be conducting a quick and unique activity. BMES at UCI will be planning and facilitating a prosthetic hand activity. Although this is more of a crafting activity, mimicking a hand made out of paper, straws, and string, the goal for this activity is to introduce the students to the basics of biomedical engineering, thinking about hand mechanics when designing a prosthetic using household items. Other activities that organizations plan to host include making a battery with metal, air, and saltwater, racing boats using surfactants, an invisible ink activity, extracting strawberry DNA, creating a water filter, making ice cream in a bag, creating a windmill, building a cotton ball launcher, creating a lemon battery, making a balloon powered car, and building rubber band powered planes. Hopefully, the variety of activities will keep students engaged! To wrap up the event, we will host a closing ceremony, including an opportunity drawing. The prizes may include UCI merchandise and gift cards.

A large event, such as this one, requires a lot of support on the day-of, so BMES at UCI will be gathering a bunch of volunteers to assist with the execution of this event. This includes hosting the activity booths, chaperoning students to lab tours, ushering students to event locations, and communicating with teachers and families who come with their students. Regarding the event itself, we will open up the RSVP form for students and families soon, but we expect to host about 350 attendees, as we will be reaching out to 30-40 schools within a 20-mile radius. We hope to host a great event with the rest of our ESO counterparts, an event that students would enjoy and learn a lot from!

Date	Audience	Estimated Attendance	Estimated Cost
5/25/24	High School Students Parents	250 High School Students 100 Parents	\$0.00

XI. Mentoring Activities

The Mentorship Program provided to the members of BMES at UCI is a valuable resource provided by professional mentors (usually UCI alumni or graduate students) and upperclassmen mentors for underclassmen mentees. Overall, the purpose of the Mentorship Groups is for mentees to discover what path they may pursue during and after college by asking their mentors questions and having formative experiences by using their mentorship connections, such as beginning research or starting hospital volunteering. By tailoring events to foster companionship in Mentorship Groups, such as with the Biweekly Challenges for groups to earn points by working together, mentees will feel more comfortable using their mentor connections. Additionally, mentors have the opportunity to help younger students as they find their place in BME and their path after undergrad. By guiding their mentees along the Exploration Project, a new quarter-long project intended to help underclassmen explore BME and delve into its specialties and niches, they promote the advancement of the younger classes and BME as a field.

Table 11: List of Mentoring Activities.

Date	Events
10/16/24	Mentorship Meet and Greet
11/06/24	Mentorship Reveal
11/20/24, 1/15/25, 1/29/25, 2/24/25	Winter Biweekly Challenges
01/15/25	Exploration Project Kick-Off
01/22/25	Professional Panel
02/05/25	Exploration Project Work Time
02/20/25	Mentorship Study Hours
02/26/25	Exploration Project Showcase
4/16/25, 4/30/25, 5/14/25, 5/28/25*	Spring Biweekly Challenges
04/16/25*	Mentorship Picnic
04/30/25*	Interview Preparatory Workshop

* Future Events

Fall Quarter

XI.A. Mentorship Meet and Greet

The Meet and Greet event hosted by BMES at UCI provided a space for undergraduate students/prospective mentees to interact with upperclassmen mentors and professional mentors. The goal of the event was to allow students to gain insights from professional mentors while also giving them a chance to determine if the mentorship program was for them. For the first 15 minutes, professional and student mentors gave quick introductions. There were three main distinctions: research, industry, and medicine, and we had professionals and upperclassmen present from each track. Then, students divided themselves to talk to upperclassmen and professionals – they had the freedom to talk to whichever mentor they preferred. Four professional mentors and eight student mentors were present. Board members helped get conversations flowing and periodically popped into groups to remind people that more mentors were available. In total, 75 people attended the event, and it was a great way for students to preview the mentorship program and casually network with professionals.



Date	Audience	Attendance	Cost
10/16/24 6:00 PM - 7:00 PM	Undergraduate Students Graduate Students Medical Students Professional Mentors	63 Undergraduates 4 Professional Mentors 8 Graduate Students	\$82.72

XI.B. Mentorship Reveal

This event builds off of the BMES at UCI Mentorship Meet and Greet event hosted a few weeks prior, where students were able to mingle with potential mentors. Based on a form released to students after the event, mentorship groups were organized based on mentor preference and post-graduate goals (Research/Academia, Medical School, Industry) with 3-5 mentees per group and a total of 21 groups.

Each group was assigned an undergraduate student mentor as well as a professional mentor (graduate student, medical student, or industry professional). At this event, the groups were revealed to the attendees so that they could introduce themselves and get to know each other. To facilitate their first team bonding experience, groups participated in an egg drop activity. After working with limited supplies (a few pieces of tape, straws, a plastic cup, paper) for 20 minutes, groups were to come up with a way to protect an egg. To test their designs, groups were directed outside the building and sent a representative up to the 3rd floor of the building. They dropped their designs, with board members waiting at the bottom to unwrap them and see if the egg was successfully protected. It was briefly mentioned that the most successful groups would win points, which was an introduction to the points system that will be implemented this year. In total, there were 58 attendees for this event, and it was a fun, stress-free way to kick off the Mentorship program.

Date	Audience	Attendance	Cost
11/06/24 6:00 PM - 7:00 PM	Undergraduate Students Graduate Students Medical Students Professional Mentors	50 Undergraduate Students 6 Graduate Students 1 Medical Students 1 Professional Mentors	\$69.37

Winter Quarter

XI.C. Winter Biweekly Challenges

The mentorship program pairs up a professional mentor with one upperclassman student mentor and three to five underclassmen mentees. An integral component of the mentorship program was the biweekly challenges: every two weeks, mentorship groups were given a new challenge to complete, designed to facilitate group bonding and academic and professional excellence. Challenges included: getting a meal together, study sessions, canned food drives, LinkedIn workshop sessions, and more! Each group that submitted a picture completing the challenge in the BMES at UCI Discord earned one point to be totaled at the end of the year. The biweekly challenges directly led to over 35 meetings between all groups over the course of 3 months. These gatherings were between student mentors, student mentees, and professional mentors. Over the academic year, we watched as our groups grew to rely on each other, and the challenge system definitely helped facilitate that guidance and chemistry.



Date	Challenge	Audience	Attendance	Cost
11/20/24	Get A Meal Together	Undergraduate Students Professional Mentors	~35 Undergraduate Students and Professional Mentors	\$0.00
1/15/25	Blaze Pizza Fundraiser			
1/29/25	Canned Food Drive			
2/24/25	LinkedIn Workshop			

XI.D. Exploration Project Kick-Off

This year as a part of their Mentorship Program, BMES at UCI kickstarted the Exploration Project – an 8 week long initiative designed to help students dive into biomedical engineering in the real world by choosing a subject that fascinates them, conducting focused research and interviews, and creatively presenting their findings through mediums like reports, pitch decks, and more. All professionals, whether they are in industry, research, medicine, or more, progress in their careers by specializing in a niche; this project was designed to give first and second-year students a head start by having them actively engage with exciting material. For the first 30 minutes, mentorship coordinators explained the project and gave in-depth examples. For the remaining time, mentees worked in their mentorship groups to begin the brainstorming process. Over 50 individuals were present: 10 student mentors

(upperclassmen) and 40 student mentees (underclassmen); this kickstarted the mentorship program for winter quarter and was a great way to get students more career-focused.



Date	Audience	Attendance	Cost
01/15/25 6:30 PM - 7:30 PM	Undergraduate Students	50 Undergraduate Students	\$33.49

XI.E. Professional Panel

This event builds off of the Exploration Project Introduction from the previous week; this event had the dual purpose of answering any questions students may have had while also provoking them to think about potential ideas for their exploration project. We had four panelists (two in industry, one PhD student, and one medical student) answer questions regarding their professional timelines and experiences in their respective fields. Panelists answered questions ranging from their advice about how linear paths can be, strongly recommended skills/experiences, stories that profoundly impacted them, and much more. This direct question and answer session lasted for roughly 30 minutes and was followed by an open networking session where audience members came up and asked questions one-on-one. This portion of the event lasted roughly 20 minutes. It was very rewarding to see the panelists talk to each one of the audience members—the event only concluded after there were no questions left to ask. In total, over 50 people attended, ranging from first-year to fourth-year undergraduates, as well as our 4 industry panelists. This was one of the most impactful sessions that the mentorship sector has hosted this year, and continues to inspire us in our efforts to facilitate guidance.



Date	Audience	Attendance	Cost
01/22/25 6:30 PM - 7:30 PM	Undergraduate Students Professional Mentors	52 Undergraduate Students 4 Panelists	\$29.85

XI.F. Exploration Project Work Time

As part of the Mentorship Program, BMES at UCI hosted study hours for mentorship groups to work on their exploration project, an 8-week-long project for students to delve deeper into real-world interests. Three weeks prior, mentorship groups were introduced to the exploration project and the next steps needed for the next 8 weeks to prepare for their personal passion project in the field of biomedical engineering. Professionals, such as mentorship coordinators, were to be used as a resource for students to delve into actively engaging with exciting material that they have been wanting to explore. Groups had an hour to work together with their mentorship groups to cultivate ideas for the project.

Date	Audience	Attendance	Cost
02/05/25 6:30 PM - 7:30 PM	Undergraduate Students	21 Undergraduate Students	\$0.00

XI.G. Mentorship Study Hours

As part of the Mentorship Program, BMES at UCI hosted study hours for mentorship groups to work on their exploration project, an 8-week-long project for students to delve deeper into real-world

interests. These study hours were an effective way of creating the space for members to bond with other BME students and work on sharing their personal experiences and interests. Students mainly focused on the presentation of a biomedical engineering-related subject by going in depth into various resources and utilizing their mentors for guidance. Around 10 students were in attendance and collaborated with their mentorship groups for around two hours.

Date	Audience	Attendance	Cost
02/20/25 6:30 PM - 7:30 PM	Undergraduate Students	10 Undergraduate Students	\$67.47

XI.H. Exploration Project Showcase

The Exploration Project Showcase event, hosted by BMES at UCI, was the culmination of the quarter-long mentorship initiative designed to help students dive more into BME in the real world. For 8 weeks, mentorship groups honed in on a single topic, conducting literature reviews, engaging with experts, solving problems, and creatively putting together their work to be presented at this event. The goal of this was to foster student curiosity, prepare them for their respective careers, and build a library of research resources for future students to access. 6 groups consisting of over 18 students presented their projects: “Terminal Limb Prosthetics and Transplants,” “Current Therapeutics Patches and Pitching: TabAid,” “A More Effective Solution to Foot-Drop,” “AI in Cancer Diagnostics,” “Computational Fluid Dynamics,” and “Diagnosing Strabismus More Effectively.” A majority of the groups that presented pitched more effective innovations, threading science, clinical understanding, and business strategies. In total, we had over 35 participants – 20 underclassmen mentees, 8 upperclassmen mentors, and around 10 unaffiliated audience members. This was a great event to end off this project and celebrate all the work our mentorship groups had worked towards.



Date	Audience	Attendance	Cost
02/26/25 6:30 PM - 7:30 PM	Undergraduate Students	35 Undergraduate Students	\$25.89

Spring Quarter

XI.I. Spring Biweekly Challenges

In Spring, there will be a continuation of the Biweekly Challenges to foster camaraderie and professional development within the Mentorship Groups. The rules that were previously established will continue, with a picture of the Group or part of the Group counting for points that are totalled at the end of the school year. The challenges may be completed by professional mentors, student mentors, and student mentees, depending on the availability and coordination of group members. By incentivizing working together to complete these challenges, the connection between mentors and mentees will continue to be strengthened. During this same quarter, the winning group or groups of the overall Biweekly Challenges will be announced at the BMES Ball. Although the challenges may change or be reshuffled according to other events planned for the quarter, there are tentative plans to award groups points for attending fundraisers, doing mock interviews, participating in community service, and making vision boards.

Date	Challenge	Estimated Audience	Estimated Cost
4/16/25	Sgt. Pepperoni's Fundraiser	10-20 Undergraduate Students 3-4 Professional Mentors	\$0.00
4/30/25	Mock Interviews		
5/14/25	Community Service		
5/28/25	Vision Boards		

XI.J. Mentorship Picnic

This fun social event for Mentorship Groups will take place in Aldrich Park (central to UC Irvine) from 5 pm to 6:30 pm; it is expected to be a highlight of the quarter and start things off with a bang. The goal of this event is to come together as a mentorship community and push forward in celebrating our last term of the year. We will be celebrating our accomplishments throughout the year, from connecting with professionals, peer-to-peer guidance, Exploration Projects, and so much more. There will be a variety of fun activities for participants to enjoy, including spikeball, football, soccer, card games, and more. Food and beverages will be provided. The open space and relaxed schedule will allow everyone to engage at their own pace. This event is a way we can celebrate the Mentorship Program at BMES at UCI.

Date	Audience	Estimated Attendance	Estimated Cost
04/16/25 6:00 PM - 7:00 PM	Undergraduate Students	35 Undergraduate Students	\$30

XI.K. Interview Preparatory Workshop

The BMES at UCI Mentorship Coordinators wanted to end the year with one last workshop for the mentorship groups. In collaboration with the Industry Correspondents, BMES at UCI will host a preparatory workshop for interviews. Throughout the year, we have touched on resume building and networking skills. However, we have not touched on interview tips and etiquette. This workshop will touch on how to be a good interviewee and what to highlight during an interview. We plan to have a short slideshow presentation with all this information. Then the slideshow will be followed by a practice session, where attendees will get into small groups and practice with each other. Board members with interview experience will join the groups to help students perfect their responses and

teach them how to think on their feet when thrown an unexpected question. Hopefully, this workshop helps students during their research, internship, and job searches in the near future!

Date	Audience	Estimated Attendance	Estimated Cost
04/30/25 6:00 PM - 7:00 PM	Undergraduate Students	35 Undergraduate Students	\$0.00

XII. Industry and Professional Development Activities

BMES at UCI places a strong emphasis on the professional development of its members, striving to create opportunities that help students expand their professional networks and gain insight into the diverse career paths within the biomedical engineering field. Over time, BMES at UCI has built strong connections with medical device companies based in Orange County, which culminated in events like the Inari Medical Info Session and the Terumo Neuro Info Session. One of the most significant professional development events organized by the Industry Sector of BMES at UCI is Industry Night—a career fair-style event featuring company representatives from a gamut of different medical device industries and attracting hundreds of students, undergraduate and graduate, interested in networking. Beyond career-focused programming, BMES at UCI also supports undergraduate research endeavours to encourage more student researchers. Research Symposia give laboratories the chance to present their ongoing work and connect with students seeking research positions. BMES at UCI remains committed to helping students grow professionally and academically, equipping them for both immediate and long-term success.

Table 12: List of Industry and Professional Development Activities

Date	Event
10/04/24	Inari Medical Info Session
10/14/24	Medtronic Company Tour
10/21/24	Medtronic ACE Internship Info Session
11/12/24	Applied Medical Industry Seminar
11/13/24	Resume Workshop
11/18/24	Research Symposium
01/29/25	Pre-Industry Night with J&J
02/06/25	Industry Night
04/09/25	Terumo Neuro Info Session
05/07/25*	B. Braun Info Session
TBD*	Edwards Lifesciences Company Tour

* Future Events

Fall Quarter

XII.A. Inari Medical Info Session

On October 4th, 2024, BMES at UCI collaborated with Inari Medical, a local medical device company in Irvine, to host an informative session for our students. Inari Medical, a company dedicated to transforming patient outcomes by removing blood clots and treating venous diseases, provided attendees with a rare opportunity to explore their mission and innovative products. The presenter of the info session was Jamison Bennet, the head talent acquisition specialist for their internship program. A current engineer at Inari, who is also a former UCI student, co-presented alongside Bennet. Students had the chance to experience product demonstrations firsthand and engage in meaningful discussions with industry professionals. Additionally, BMES at UCI members gained valuable insights into Inari's upcoming highly competitive internship program, learning about potential career pathways both during and after college. Many participants also took advantage of the opportunity to speak directly with the talent acquisition specialist, making the event an excellent platform for networking and career exploration. Overall, the event was a success with over 20 BME students in attendance.

Date	Audience	Attendance	Cost
10/04/24 9 AM - 10 AM	Undergraduate Students	20 Undergraduate Students	\$0.00

XII.B. Medtronic Company Tour

Each Fall, BMES at UCI hosts a company tour with a local company in the Biomedical Engineering Industry in Irvine. This year, the tour was hosted at the Medtronic Neurovascular Site, which is located just outside of the UCI Research Park. At this event, a group of 40 undergraduate and graduate students were welcomed into the Medtronic site and had the opportunity to learn about both working as an engineer at a large medical device company, in addition to the growing Neurovascular business profile within Medtronic. The tour started with a presentation by employees at Medtronic who were also former UCI Students, discussing the background of Medtronic, as well as conducting a Q&A session with the students regarding the company and their own experiences as young engineers. It was then followed with a series of breakout sessions where the group was split into small sections and was introduced to product demos of various devices produced at the site, in addition to tours of the prototyping facilities and laboratory equipment. This event was not only a valuable opportunity for students to learn about what it is like to work in the Biomedical Engineering Industry, but also a prime opportunity for networking with local engineers within Medtronic.



Date	Audience	Attendance	Cost
10/14/24 1:20 PM - 4:15 PM	Undergraduate Students	40 Undergraduate Students	\$0.00

XII.C. Medtronic ACE Internship Info Session

BMES at UCI hosted an information session held in collaboration with representatives from the Associate Clinical Engineering Department of Medtronic in Southern California. The informational session was focused specifically on introducing the Summer 2025 Associate Clinical Engineering Internship position. At this informational session, the director of the internship program, along with an employee who previously was an intern at this program before being onboarded as a full-time employee, presented on both the company and the internship program in particular. The presentation started with background information on the role itself and how it fits in with the larger Medtronic profile, and was followed by information regarding eligibility and application information for the program itself. At the end of the session, students were given the opportunity to introduce themselves to the Medtronic representatives and also provide resumes if they were interested in the position. This event was very successful with a turnout of over 50 students attending the session.

Date	Audience	Attendance	Cost
10/21/24	Undergraduate	50 Undergraduate	\$0.00

12:00 PM - 1:30 PM	Students	Students	
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XII.D. Applied Medical Industry Seminar

The BME Department at UCI has an Industry Advisory Board (IAB) to provide insight on curriculum or future preparation for industry careers that students aim to obtain after their education. Dr. Christine King reached out to BMES at UCI with an opportunity to host a seminar by Julian Drake, from Applied Medical, one of the medical device companies located in Irvine. He wanted to discuss the transition from academia into industry with undergraduate students who are interested in pursuing this pathway. It was a little difficult navigating times when students and the speaker would be available, but we settled on a time when students were able to attend after class. During the seminar, he talked about his company, the facilities, and his job! He provided a great overview of the field of engineering for the attendees, and this was an excellent opportunity for students to learn from and network with industry professionals.

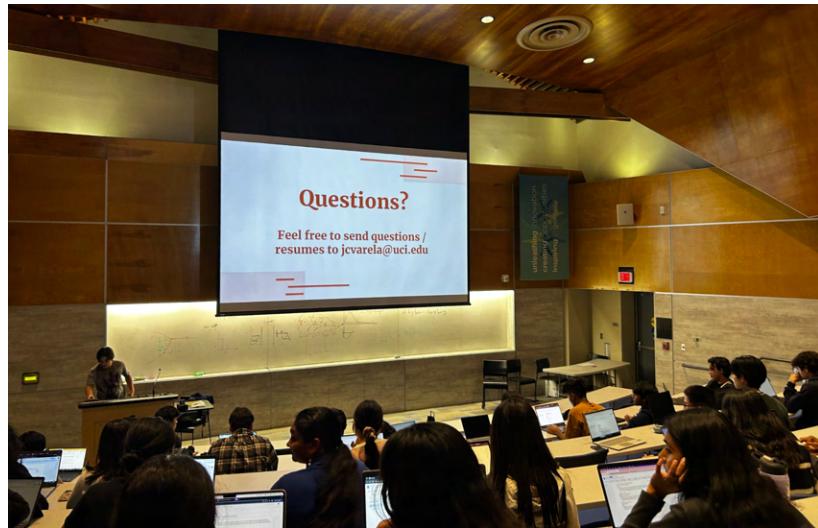


Date	Audience	Attendance	Cost
11/12/14 6:00 PM - 7:00 PM	Undergraduate Students	30 Undergraduate Students	\$0.00

XII.E. Resume Workshop

BMES at UCI held a resume workshop where Industry Correspondent Joshua Varela gave an informative presentation detailing his resume and several tips to land student interviews. This workshop was tailored towards first and second year students with essential tools and strategies to build compelling resumes. Joshua detailed the STAR format, as well as several different resume templates students could use. He also detailed several things that he would avoid putting on a resume and gave structuring tips to help stand out to land interviews for competitive internships and early-career job applications, with emphasis on the importance of highlighting technical skills, relevant coursework,

and hands-on experiences, even for students with limited professional exposure. At the end of the workshop, there was also a very interactive Resume Feedback section where Joshua assembled a panel of reviewers to review the resumes that the students had. Overall, the workshop was very successful. There was a turnout of around thirty students who were actively taking notes and improving their resumes throughout the event.



Date	Audience	Attendance	Cost
11/13/24 6:00 PM - 7:00 PM	Undergraduate Students Graduate Students	20 Undergraduate Students	\$0.00

XII.E. Research Symposium

The annual Research Symposium hosted by BMES at UCI is an event designed to introduce undergraduate students to the diverse research opportunities available on campus at UCI. It also provides an ideal platform for any research labs actively recruiting undergraduate researchers to be able to connect with motivated and eager undergraduate students. This year, representatives from 18 different biomedical engineering research labs were invited to present their work through poster boards and presentations. Each lab was assigned a dedicated station equipped with tables, chairs, easels, and boards for their materials. The event was organized in a career fair-style format, allowing students to drop in and talk to any research lab that interested them. The turnout was very significant, with over 90 students participating in the symposium over the course of the afternoon, resulting in a successful event for both showcasing research on campus and introducing students to graduate students from different fields within biomedical engineering at UCI.

Date	Audience	Attendance	Cost
11/18/24 11:00 AM -2:00 PM	Undergraduate Students Graduate Students	93 Undergraduate Students 20 Graduate Students	\$992.05

Winter Quarter

XII.F. Pre-Industry Night with J&J

The Pre-Industry Night workshop was held on January 29, 2025, from 6:30 to 7:30 pm in the McDonnell Douglas Engineering Auditorium at UCI. This event offered students invaluable insights and practical guidance as they prepared to navigate what could be their first career fair. Led by Johnson & Johnson representatives and BMES at UCI industry correspondents, the workshop provided a platform for students to have their questions answered and doubts clarified, particularly beneficial for those who were new to the career fair experience.

One of the key highlights of the workshop was the emphasis on proper research techniques prior to engaging with company representatives. J&J presenters demonstrated how to conduct thorough research on companies, enabling students to tailor their pitches effectively and demonstrate genuine interest during interactions at the career fair. By understanding a company's background, culture, and current projects, students could craft compelling introductions and engage in more meaningful conversations with recruiters.

The latter part of the workshop was dedicated to individual resume feedback and networking practice, providing students with personalized feedback to refine their resumes and elevator pitches. This hands-on approach allowed students to apply the knowledge gained immediately, ensuring that they left the workshop with polished resumes and enhanced presentation skills. Moreover, the workshop served as a primer for the format and organization of the upcoming BMES at UCI Industry Night, to ensure students were well-prepared for the event. By familiarizing them with the event's structure and expectations, the workshop equipped students with the confidence and know-how to navigate the career fair successfully.



Date	Audience	Attendance	Cost
01/29/25 6:30 PM - 7:30 PM	Undergraduate Students	45 Undergraduate Students	\$40

VII.G. Industry Night

The BMES at UCI Annual Industry Night, held on February 6, 2025, from 4:30 PM to 7:30 PM in the UCI Student Center, was the biggest industry event of the year, drawing over 160 students to network with more than 20 different companies. This event provided a great platform for students to directly interact with recruiters and engineers, understanding the innovative work their companies are involved in, as well as exploring potential career paths. The evening showcased a wide range of participants, from industry giants like Medtronic, Johnson & Johnson, and Abbott, to dynamic startups and advanced academic programs like the UCI Masters of Engineering.

The BMES at UCI Industry team dedicated months of planning to create a smooth event, prioritizing accessibility and convenience for both the students and the participating organizations. A dedicated event website was developed, featuring essential information, RSVP forms, and a platform for students to submit their resumes electronically. BMES at UCI board members were also on hand throughout the event to assist and address any inquiries from the attendees. The event was particularly significant for many students as it marked their first in-person career fair experience. It was encouraging to see a diverse turnout, with students from various academic levels attending in professional attire. Recruiters enhanced the experience by showcasing physical prototypes and offering demonstrations to illustrate the technical intricacies of their work. Students had the flexibility to submit their resumes through the electronic resume bank provided by BMES at UCI or to present hard copies in person, with many opting for both methods.

The feedback from participants was overwhelmingly positive, with many expressing their gratitude through LinkedIn and emails after the conclusion of the event. This event was ultimately successful, and there are plans to continue the BMES at UCI tradition of hosting an Industry Night for next year.



Date	Audience	Attendance	Cost
02/06/25 4:30 PM - 7:30 PM	Undergraduate Students Graduate Students	165 Undergraduate Students	\$836.66

Spring Quarter

VII.H. Terumo Neuro Info Session

BMES at UCI hosted an information session with Terumo Neurovascular, a company that specializes in noninvasive treatments for stroke and various neurovascular conditions. This info session was hosted by company representatives on April 9th from 6:00-7:00 pm. During these information

sessions, Terumo Neurovascular talked about their upcoming summer internship program and how UCI students could be best equipped to apply. In this workshop, Terumo Neurovascular also discussed their company background, the different roles of engineers, and the day-to-day life of someone who would be working at Terumo Neurovascular. Terumo Neurovascular also offered a company “Question and Answer session” in which students can directly interact with the company representatives. Students seemed to really enjoy this, as this was able to foster professional development and networking for the students.



Date	Audience	Attendance	Cost
04/09/25 6:00 PM - 7:00 PM	Undergraduate Students	55 Undergraduate Students	\$0.00

VII.I. B. Braun Info Session

BMES at UCI will be hosting an upcoming information session with B. Braun, a global medical technology company known for being a leader in smart infusion therapy and pharmaceutical products. The event will take place on May 7th from 6:00–7:00 pm and will be led by company representatives from both engineering, HR, and similar roles. During the session, B. Braun will introduce their company background, highlight the roles engineers play across different departments, and provide insight into the daily work environment at B. Braun. They will also share details about their upcoming opportunities and offer guidance on how UCI students can prepare strong applications. The event will conclude with a live Q&A session, giving students the chance to connect directly with company representatives, ask questions, and build valuable professional connections.

Date	Audience	Estimated Attendance	Estimated Cost
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05/07/25 6:00 PM - 7:00 PM	Undergraduate Students	30 Undergraduate Students	\$0.00
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VII.J. Edwards Lifesciences Company Tour

This quarter, BMES at UCI will host a company tour with Edwards Lifesciences, a leading medical device company with one of the largest campuses in Irvine. This event offers students a unique chance to explore the Edwards campus and gain insight into the work engineers do on-site. During the tour, students will hear from current Edwards engineers, many of whom are UCI BME alumni, who will share their experiences and offer a look at life in the medical device industry. The visit will include an overview of the company's mission and projects, followed by a guided walkthrough of engineering workspaces and prototyping labs. BMES has partnered with Edwards for past tours, and it continues to be one of our most popular events among students interested in local industry exposure and networking opportunities.

Date	Audience	Estimated Attendance	Estimated Cost
TBD	Undergraduate Students	30 Undergraduate Students	\$0.00

XIII. Societal Impact Activities

BMES at UCI hopes to cultivate an environment where our members can express their innovative side. The medical device industry is constantly changing, and one of our priorities is to prepare students to enter this evolving industry. BMES at UCI hosts events to strengthen the technical and problem-solving skills of our members. Technical skill workshops were hosted at the beginning of the academic year to build a strong foundation and give students tools that would be necessary to succeed in the industry. At the end of the Fall quarter, a Technical Triathlon was hosted to test the members on their newfound skills in a competitive way. Students were also able to apply these skills to the Temperature Sensor Mini-Project series of workshops that were held shortly after. The second half of the year was focused on ideation and what it takes to push a device idea into the medical device market. One of the largest events this year was the Open MIC: Medical Innovation Competition, where students had the opportunity to pitch their ideas to industry and academic professionals. These workshops and events were hosted to motivate and prepare students for participating in the National BMES Student Design Competition.

Table 13: List of Societal Impact Activities

Date	Event
10/03/24	Cross-ESO Project Symposium
10/10/24	SOLIDWORKS Keychain Workshop
10/17/24	Arduino Workshop
11/07/24	MATLAB Workshop
11/20/24	Technical Triathlon
01/14/25	Mini Project Workshop: CAD
01/28/25	Mini Project Workshop: Arduino
02/11/25	Mini Project Workshop: Coding
02/19/25	Open MIC: Medical Innovation Competition Kick-Off
03/05/25	Open MIC: Medical Innovation Competition Office Hour
03/08/25	Open MIC: Medical Innovation Competition

04/10/25	Device to Dollars: Turning Ideas into Business
04/24/25*	SOLIDWORKS Keychain Workshop Pt. 2
05/08/25*	Ansys Introductory Workshop
05/28/25*	National BMES Kick-off

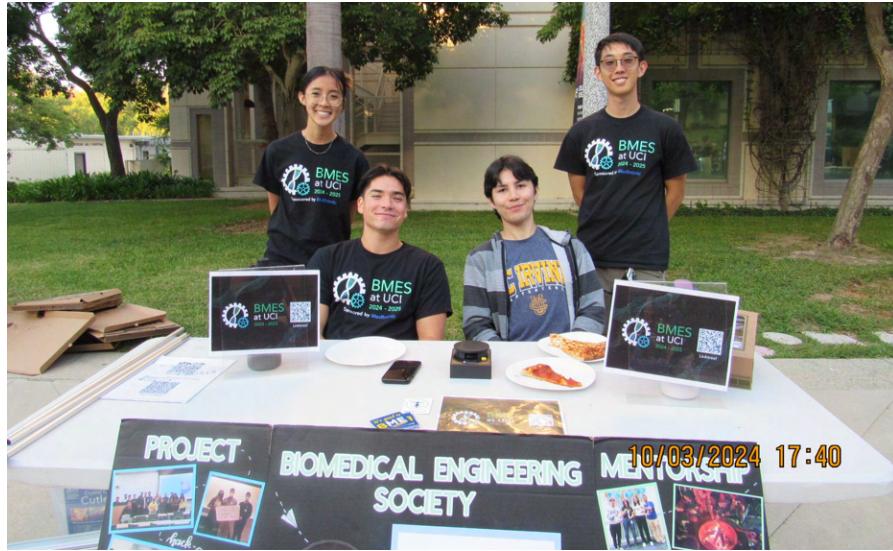
* Future Event

Fall Quarter

XIII.A. Cross-ESO Project Symposium

To start the year, BMES at UCI hosted the 3rd annual ESO Project Symposium with nine other Engineering Student Organizations (ESO) in attendance: Engineers without Borders, Engineering Student Council, Engineers for a Sustainable World, Anteater Combat Engineering, Institute of Electrical and Electronic Engineers, American Society of Civil Engineers, American Society of Mechanical Engineers at UCI, UCI HyperXite, and the American Society of Mechanical Engineers at UCI. The primary objective of this event was to kick off the school year by providing students with the opportunity to engage with the resources and opportunities within these engineering organizations to foster both technical development and network expansion.

All participating ESOs set up booths where students could network individually with board members of each organization, including BMES at UCI. Regarding our booth, depending on what students were interested in within the biomedical engineering field, our board members talked about the technical and entrepreneurial skills of our project program, our industry and research connections, outreach volunteer opportunities, and our supportive community. Afterward, many new students registered to be members of BMES at UCI and other ESOs. In total, we had an outstanding turnout of 113 participants and 27 board members across all the ESOs. Overall, it was a fantastic experience to get students involved and BMES to foster collaboration with other ESOs. We look forward to continuing to host this event for future years and expanding to reach more ESOs, students, and potentially capstone projects.



Date	Audience	Attendance	Cost
10/03/24 4:30 PM - 6:30 PM	Undergraduate Students	113 Undergraduate Students	\$213.79

XIII.B. SOLIDWORKS Keychain Workshop

For our first technical skill workshop of the Fall, BMES at UCI held a Solidworks Keychain Workshop! We made this first workshop free of charge, so all students had the opportunity to try our Project Program! To improve equitable access, we also let students waive our membership fee based on need as well. As we were planning this event, we looked at the previous year's feedback, and we learned that a large number of students in the past did not have laptops capable of running Solidworks, and new students also likely didn't have Solidworks downloaded. To prevent these issues this year, we reserved the engineering computer labs where Solidworks is already installed. In this event, each student created their own 3-D model of a custom keychain with the BMES at UCI logo, and their initials. This taught students the basic skills of CAD: sketching, extruding, cutting, chamfering, importing drawings, and exporting STLs. Volunteers went around to assist any students who fell behind in the presentation, and all attendees were able to successfully submit their files. All the keychains were 3D printed by the UCI BME Fab Lab manager using a multicolor printer, and were picked up at future BMES events. Overall, this event ran smoothly with 31 attendees and marked a successful start to the quarter, especially due to the implemented feedback from last year's project coordinators.



Date	Audience	Attendance	Cost
10/10/24 6:00 PM - 7:30 PM	Undergraduate Students	31 Undergraduate Students	\$0.00

XIII.C. Arduino Workshop

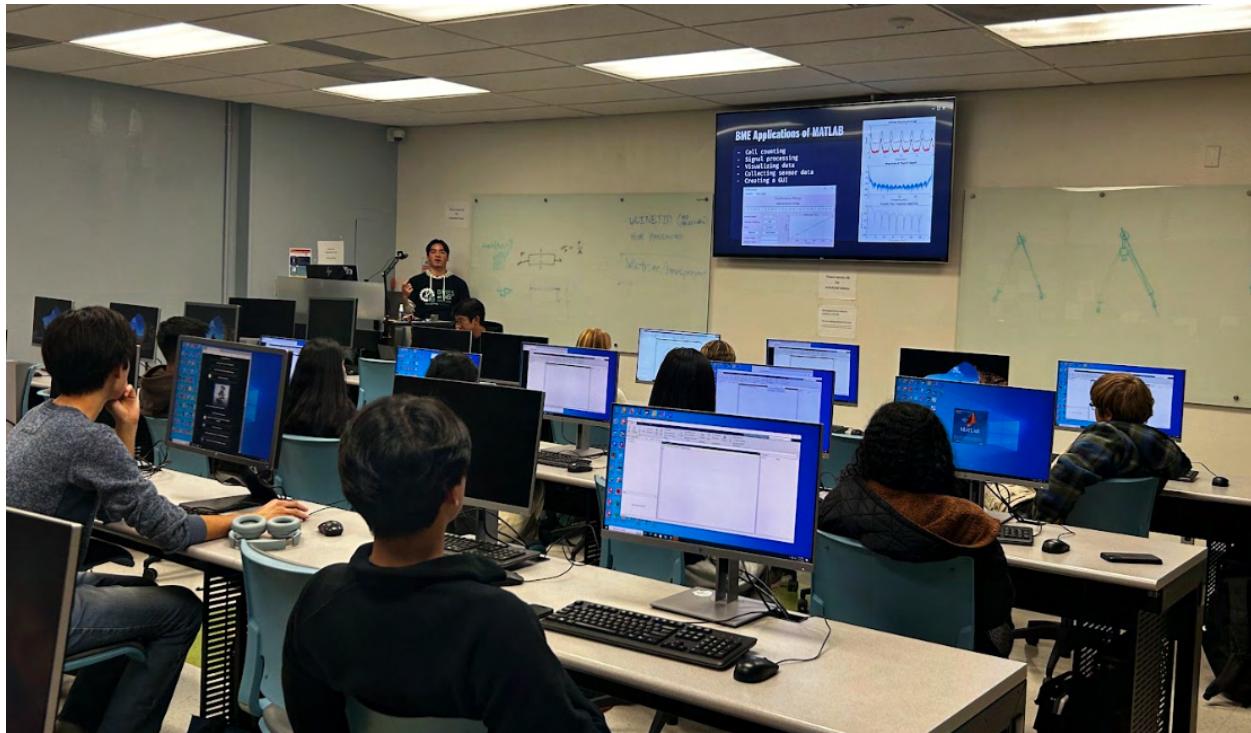
The BMES at UCI project coordinators hosted a more hands-on Arduino workshop to introduce project members to pairing circuitry and Arduino coding. We wanted to provide an informative introduction to Arduino, a versatile tool commonly used across many engineering disciplines and industries. In this event, we discussed common biomedical applications of Arduino, including wearable devices and sensor integration. We quickly transitioned into a follow-along hardware and coding session where we constructed basic Arduino circuits and scripts to teach our project members fundamental syntax and functionality. Each member could upload their code to their Arduino boards to see if it matched the desired output. After we felt the members were ready, we moved into different challenges. We had two main challenges in this workshop. We gave the members a prompt to light up an LED using their Arduino and then extended this by integrating a button to control the LED. In this event, we hosted 17 project members who completed the two challenges. More circuitry parts would be nice for future workshops using Arduino; however, something that we could implement that is cost-friendly is organizing individual kits with all the necessary components beforehand to increase the efficiency of the event and minimize the likelihood of a participant missing a part.



Date	Audience	Attendance	Cost
10/17/24 6:00 PM - 7:30 PM	Undergraduate Students	17 Undergraduate Students	\$39.82

XIII.D. MATLAB Workshop

The BMES at UCI's project program wrapped up the quarter with a MATLAB workshop. We wanted to provide an informative introduction to MATLAB, which is a useful tool that is commonly used for both BME courses, industry, and research. In this event, we discussed common biomedical applications of MATLAB, including image processing and constructing data visualizations. We quickly transitioned into a follow-along coding session where we constructed basic Matlab scripts to teach members basic syntax and functions. Each member could execute their code to see if it matched the code on the screen. After we felt the members were ready, we moved into different challenges. We had two main challenges in this workshop: a prompt to create a plot of a given dataset and a prompt to apply various filters to an image of colored chips. In this event, we hosted 12 project members who were all able to complete the two challenges. We were very pleased that each participant was able to fully complete both challenges, however, we think that having computers open with MATLAB ready to go before the workshop could help the efficiency of the event since they wouldn't have to wait for the program to open while we began the instructional section.



Date	Audience	Attendance	Cost
11/07/24 6:00 PM - 7:30 PM	Undergraduate Students	12 Undergraduate Students	\$0.00

XIII.E. Technical Triathlon

The 4th Annual Technical Triathlon was hosted by the BMES at UCI Project Coordinators as an opportunity for students to test their comprehension of common technical skills used in the BME industry, such as SolidWorks, MATLAB, and Arduino, unaided by other resources. This competition was lower-stakes, but there was a cash prize for each winning team in either the beginning track or the advanced track. There were a few main rules that all participants followed to make sure they were eligible for the cash prize. The first rule was to not look up anything on the internet or use any AI Language Learning Models (LLMs) to code for them. The second rule was to only work within their teams and to only use 1 computer per team. The final rule was that teams may not move on to another task if they had not completed the task they were working on. During this event, there was a maximum of 3 people per team, and upperclassmen students were only allowed to participate in the advanced track.

With SolidWorks, each track was given an engineering drawing, and students in the beginner track had to create a square-looking anteater using a few common extrusion features. For the advanced track, students were tested with a much more complex challenge: build a rocket. For MATLAB, students in the beginner track were tested on their fundamentals in plotting figures. They were tasked with plotting a cosine and sine wave with different colors with different styles of lines. In the advanced track, participants had to create a lengthy script that processed an image of coins, where the challenge was to automatically count the coins using MATLAB code. For the last challenge in Arduino, beginner students had to blink 2 LEDs to test their ability to effectively code repetitive patterns. For the advanced track, the competing students had to dim or brighten 6 LEDs in sequence using a potentiometer, and the challenge was to reverse the direction of the sequence while a button was pressed.

The outcome of this event was that 27 students showed up, and two teams successfully won the competition and received a \$75 Cash Prize. In the future, we plan to create shorter challenges to allow participants to feel like the challenges are a race against the clock. Oftentimes, we found that the challenges would take up more time than originally allocated. Therefore, smaller-scale challenges that force participants to think critically need to be implemented in future technical triathlons. Nonetheless, the turnout was as expected and the event was ultimately a success.



Date	Audience	Attendance	Cost
11/20/24 6:00 PM - 8:00 PM	Undergraduate Students	27 Undergraduate Students	\$150.00

Winter Quarter

XIII.F. Mini Project Workshops: CAD/Arduino/Coding

Kicking off their winter quarter strong, the BMES at UCI project team developed a new three-part series for our members to build a telemetry patient temperature monitoring system! To make this project as equitable as possible, there was no cost to sign up for this project as a project member, and financial assistance was given to those who reached out about the membership fees. In the first workshop, the project members followed the lead of our Project Coordinators to 3D model the parts in SOLIDWORKS. A good number of students did not have prior experience, but our team of trained volunteers were always there to help and support anybody who fell behind. This year's workshop progressed at a smooth and reasonable pace, which was an improvement from last year, where the workshop went overtime due to the excessive pauses to catch everyone up. The design files were exported and uploaded to a Google Drive, and printed at the UCI BME Fabrication Lab thanks to the support from Dr. King.

During the second workshop, the project members received their 3d printed parts along with an ESP32-WROOM Dev board, 128x32 OLED screen, waterproof DS18B20 temperature probe, various wires + connectors, and a USB-C cable. We chose to switch to the ESP32 to explore teaching wireless protocols since telecare is a growing health field. ESP32 boards are not normally used in the classroom curriculum, so it was a great skill to learn and go over in our workshop. Our volunteers were able to adjust quickly and still provide support and answer our members' questions about the board. In the second workshop, the members coded their sensors using the Arduino IDE to display the measured temperature on the OLED screen. In the third workshop, the members improved on their code and implemented Bluetooth data streaming over Wifi to display a live temperature on their smartphones and plot it in real time. In the end, we achieved our goal of providing a fun and engaging project with 15 volunteers supporting 31 participants to successfully complete their working prototypes that they could take home and improve further. It was great having a lot of volunteers as it allowed the event to run smoothly and leave no question unanswered.

Overall, this was a great improvement from the Mini-Project series last year, and our retention was much higher. The BMES at UCI Project Interns did a great job in taking the initiative to plan and host these workshops with the Project Coordinators, so it was a great learning experience for them as well!



Date	Audience	Attendance	Cost
01/14/25 6:00 PM - 7:30 PM	Undergraduate Students	46 Undergraduate Students	\$263.59

XIII.G. Open MIC: Medical Innovation Competition Kick-Off

BMES at UCI's Open MIC Kickoff Workshop provided an introductory platform for 20 chapter members to gear up for our entrepreneurship event, Open MIC: Medical Innovation Competition. Attendees gained comprehensive insights into our competition with a thorough walkthrough of event expectations and our competition website, which served as a hub for our members to access additional online resources and reference documents to consult for assistance. The event fostered a collaborative environment where aspiring innovators received mentorship and guidance, fostering confidence and readiness for the upcoming competition. Students also participated in an interactive market research

session led by a project coordinator, covering critical topics such as go-to-market strategies, patents, FDA regulations, and market metrics such as TAM-SAM-SOM. This session reiterated the importance of leveraging quantitative research in an innovation pitch, and our participants were able to see how they could perform the same preparation process for their 7-minute pitch to persuade judges of the innovation's value.

Date	Audience	Attendance	Cost
02/19/25 6:30 PM - 7:30 PM	Undergraduate Students	20 Undergraduate Students	\$0.00

XIII.H. Open MIC: Medical Innovation Competition Office Hour

The BMES at UCI's Project Coordinators hosted an Open MIC Office Hour for 15 chapter members as a preparation event on March 5th. This event allowed teams who are participating in the Open MIC: Medical Innovation Competition to further develop and finalize their entrepreneurial innovation pitches. This event was formatted as an "office hour" so teams could attend any time between 6:30-7:30 if they had questions for Project Coordinators or if they needed a dedicated hour to work on the idea. Through this interactive session, participants solidified their ideas and received feedback from the project team as well as other board members on their pitch decks. The workshop emphasized the need for clarity and purpose in the pitches, so participants can effectively pitch their innovation before a panel of judges composed of industry professionals. The office hour served as a collaborative space for our participants to refine their medical innovation ideas based on constructive feedback, which fostered the professional and technical development of our project members in preparation for the competition itself. To make this event more productive in the future, we hope to discuss judging expectations more in-depth to help members align their pitches accordingly.

Date	Audience	Attendance	Cost
03/05/25 6:30 PM - 7:30 PM	Undergraduate Students	15 Undergraduate Students	\$0.00

XIII.I. Open MIC: Medical Innovation Competition

The Open MIC: Medical Innovation Competition was BMES at UCI's 3rd annual entrepreneurial medical device competition. We hosted 40 participants (12 teams) and 8 judges consisting of researchers, entrepreneurs, and industry representatives from Alcon, Johnson & Johnson, and Edwards Lifesciences. Of the cohort of judges we collaborated with, we are proud to say that 6 out of the 8

judges were UCI Alumni, which furthers our intentions of collaborating with alumni in our events to offer advice and feedback for each project member involved in our program. This event served as our project program's flagship event of the year, modeled after the National BMES Design Competition, composed of three tracks: Mechanical/Electrical, Electrical/Computer Science, and Biological/Chemical. Additionally, we awarded \$1200 in total prizes to the 1st and 2nd place winners of each track. The goal of this event is to expose participants to the entrepreneurial side of biomedical engineering by combining engineering design with business viability. Teams were tasked with conducting research on unmet clinical needs, devising their best medical device idea, and providing a 7-minute presentation to a panel of judges, immediately followed by a 5-minute Q&A session from the judges. Teams were assessed mainly on their problem statement, technical feasibility, business model, and go-to-market strategy. The event started with an optional 2-hour work session to allow teams to finalize the pitch decks and practice their pitches in MDEA. Judges arrived around noon for lunch, where the project coordinators discussed the expectations for the event: providing constructive feedback and participating equally in the Q&A after each team's presentation. Once a brief introduction was given to participants, the presentations began, where each team presented, and the judges scored the judging rubric accordingly. Once the judges were given time to deliberate and determine a 1st and 2nd place for each track, the winners were announced, and we hosted a small networking session for teams to discuss their ideas and feedback with the judges. We were very pleased with the willingness of the judges to stick around after the event, as they mentioned they wanted to network with these teams, and this was an integral part of the success of the event, both for participants but also a rewarding experience for the judges. Overall, looking back on previous years' Medical Device Competition events, having alumni as judges was so pivotal in the success of the event, as they were asking for the opportunity to speak with the students. The event finished slightly early, and all the judges were willing to stick around, which was great for all participating. In the future, we should make more copies of the rubric so that judges could have more room for feedback and teams could take the judge's feedback after the event to look to refine their concepts and/or pitches. In terms of planning, we should allocate more time towards acquiring sponsorships in the fall to secure funding and a set prize amount prior to advertising the event so that participants have more incentives to put their best foot forward.



Date	Audience	Attendance	Cost
03/08/25 11:30 PM - 3:30 PM	Undergraduate Students	33 Undergraduate Students	\$1398.77

Spring Quarter

XIII.J. Connecting Engineering + Business

The BMES at UCI Project team's first event of the Spring quarter, Devices to Dollars, was our first workshop after the Open MIC: Medical Innovation Competition. In this event, we reflected on some of the major feedback from the judges: business viability and go-to-market strategies. We discussed

some of the most universal medical devices and their business strategies, and how they took their idea from an idea or a design and took it to the market. We also discussed briefly identifying problems and user considerations through customer discovery, such as meeting with physicians or meeting with patients via interviews to understand the problem further. We then dived into IP strategies and regulatory pathways associated with certain kinds of medical devices and why medical devices are so expensive in our eyes. This was helpful for participants because they got to think through the pathways and strategies involved with their concept and all the behind-the-scenes activities that are required to bring a device to market. We also tried explaining how understanding things like Verification and Validation testing, Quality Management System (QMS), Standard Operating Procedures (SOPs), etc., are all important for businesses to gain FDA clearance by establishing good quality control. The purpose of this was to expose project members to how knowledge of this is all relevant to what engineers do every day in device development. We proceeded by handing out empty business model canvases and had teams work through each section and fill it out according to their concept. This exercise was a great way for participants to visualize the business in a practical sense as preparation for the National BMES Design Competition abstract. In the future, it would be great to have an industry representative who has an engineering background who works more on the strategic marketing side of medical devices to come speak to project members, not only for networking but also general advice on what it is like to bring a device to market in the industry.



Date	Audience	Attendance	Cost
04/10/25 6:00 PM - 7:30 PM	Undergraduate Students	13 Undergraduate Students	\$0.00

XIII.K. SOLIDWORKS Keychain Workshop Pt. 2

Due to high popularity, numerous member requests, and many students taking BME 60C, the BME SOLIDWORKS course at UCI, we will be conducting another SOLIDWORKS keychain workshop! During this workshop, students will be modelling a BMES-themed keychain. At our previous workshop, we did personalized keychains, but some students did not get around to picking them up. Using this as feedback, we will have the keychains printed and ready for members to take home once they complete the workshop. To print the keychains, we will use our partnership with the BME Fabrication Lab and get them printed on the multicolor Bambulab P1S 3D printers. To improve access to this workshop, we will run this workshop in the engineering computer labs where SOLIDWORKS is already installed. This ensures students who do not have access to computers powerful enough to use SolidWorks can still participate. Overall, our goal for this workshop is to build upon our project members' technical computer-aided design (CAD) skills: proper sketch standards, different types of constraints, extruding/cutting, and exporting STLs. We have a team of 10 trained volunteers who will go around and help anyone who gets stuck or falls behind during the workshop. We look forward to this event having an attendance of over 30 project members and running smoothly!

Date	Audience	Estimated Attendance	Estimated Cost
04/24/25 6:00 PM - 7:30 PM	Undergraduate Students	30 Undergraduate Students	\$0.00

XIII.L. Ansys Introductory Workshop

To continue the technical development of our program, we will be piloting a new workshop using Ansys, an advanced simulation software, to predict how the medical devices our program members make will—or won't—work in the real world. We have started a new partnership with Ansys as a student group. We have invited several company representatives from Ansys to talk about the many different applications of their program and to teach our project members how to use it. The representatives are providing food as an incentive for the event, and each student will be able to access Ansys for free after the workshop using a student license. This workshop will build skills that students can use in industry and that are not taught in the core curriculum. Validation testing is a very critical aspect of developing a medical device, and Ansys is one of the leading industry standards for simulations. Some common applications are testing for material failure under forces, modelling deflection, and generative design in response to stress plots. We anticipate this workshop reaching around 30 members, and we hope that our members will be able to network and make connections with the industry representatives as well.

Date	Audience	Attendance	Cost
05/08/25 6:00 PM - 7:30 PM	Undergraduate Students	30 Undergraduate Students	\$0.00

XIII.M. National BMES Kick-off

As part of our upcoming National BMES Kickoff, the BMES at UCI Project team plans on sharing logistical details and submission guidelines for the National BMES Student Design Competition. We also plan to invite alumni who have previously competed in the competition so our members can receive advice and feedback on how to navigate this competition. For most students, this entrepreneurial-focused quarter introduced a new field (entrepreneurship) of biomedical engineering, where they were able to learn more about the business side of engineering. This kickoff will conclude our quarter by tying in everything our members have learned from the 2025 Open MIC: Medical Innovation Competition as well as our workshops on business models, regulatory pathways, and go-to-market strategy. A major emphasis that the Project Coordinators hope to address during this kickoff is how to tell a well-rounded story of the medical device innovation for the competition proposal. Essentially, we want to emphasize how students' medical device ideas are the main characters in their story and how they can better illustrate to others the purpose and relevance of their device idea. We expect a turnout of at least 25 students, including those who previously competed in BMES at UCI's Open MIC event, and we hope that students will find the necessary support they need in pursuing the National BMES Student Design Competition.

Date	Audience	Attendance	Cost
05/28/25 6:00 PM - 7:00 PM	Undergraduate Students	25 Undergraduate Students	\$0.00

XIV. National BMES Meeting

For the past five years, BMES at UCI has had the privilege to attend the National BMES Meeting, and our chapter has been honored to be awarded the Societal Impact Award for 2 years, the Outstanding Chapter Award for 1 year, and the Commendable Achievement Award for the 2023-2024 academic year. The National BMES Student Design Competition has always been an important aspect of our project curriculum in the past, and we have had the honor of having teams place in the finals three times in the past. In the 2024-2025 academic year, we would like to continue to guide teams to success, and we hope to see some of our project members submit their project proposals and place in the competition. Each year, we had BMES at UCI Board Members and project members attend the event.

For the 2021 Annual Meeting in Orlando, a total of 9 students attended in person, and another 4 students attended virtually. The students consisted of research presenters, Medtronic Student Design Competition finalists, and Board Members who attended to accept the Societal Impact Award.

For the 2022 Annual Meeting in San Antonio, a total of 9 students attended in person, 8 of whom were Board Members. 3 of the 9 students were project team members who placed 2nd in the Electrical and Mechanical Engineering track in the Student Design Competition. We met many other student chapters and built our network amongst students, grabbed lunch with UCI professors, and attended many special events at the conference. Many Board Members who attended presented their research, so we attended and browsed all poster presentation sessions to support our fellow Board Members and explore new research. Our chapter was able to receive and accept the Societal Impact Award as well!

For the 2023 Annual Meeting in Seattle, a total of 8 students attended, 7 board members, and 1 project member. We were able to meet up with members of other student chapters with whom we have collaborated to strengthen our communication, and we had the opportunity to connect with other chapters as well. We were all able to attend and support board members at poster sessions and the DEBUT Awards, in addition to attending small group sessions of interest. We were also able to grab lunch with UCI professors and explore Seattle, increasing our board cohesion. Our chapter was able to receive and accept the Outstanding Chapter Award as well!

For the 2024 Annual Meeting in Baltimore, a total of 7 board members attended. This year, we were provided the opportunity to booth in the Exhibit Hall on behalf of our chapter. This allowed us to connect with other student chapters, including the University of South Florida. Our board members were able to explore the Exhibit Hall and talk to a lot of representatives to learn more about graduate school programs and summer research opportunities. Additionally, we were able to support our board

members with their research posters and were able to attend group sessions of interest as well. One of our board members was also allowed to volunteer at the conference at a few of these sessions. We also attended the UC Systemwide Reception and had a lot of fun! We were able to reconnect with the UCLA BMES chapter at the reception and introduced our board members who were unable to make the social we co-hosted earlier in the year. We were able to grab lunch nearby with our BME Department Chair, Dr. Michelle Digman, and Dr. Anna Grosberg, in addition to talking with more of our faculty at the Exhibit Hall to strengthen our connection with the faculty. A few faculty members also came to support us at the student chapter awards ceremony! We were greatly honored to receive and accept our Commendable Achievement Award, and our President represented our chapter on a panel discussion of best practices. Outside of the meeting events, we were able to explore Baltimore and the pier nearby, allowing our board members to bond while enjoying the area. Overall, the 2024 Annual Meeting was very enjoyable and rewarding, from connecting with more student chapters to building stronger connections with our faculty.

In future meetings, BMES at UCI will look to further expand our network of student chapters across the country and connect with medical device and biotechnology companies in attendance. We hope to be able to bring general members with us to attend the conference. It would also be very beneficial to our members who take advantage of our Annual Industry Night, Company Informational Sessions, and Company Tours. Special sessions may also help our Project Team identify clinical needs for our future competitions. Attendees will be able to explore their interests and identify possible graduate school programs or summer research programs that they would like to pursue.



XV. Future Direction

XV.A. Summation of Next Year's Chapter Goals

We look forward to the future growth of our chapter as we continue to provide students with a welcoming community and a multitude of opportunities for career development and excellence. At BMES at UCI, we are committed to constantly improving our programs and reflecting upon the feedback from previous years to refine how we operate. It is important to recognize the many achievements our board members and community have made, and to always strive to continue and improve those achievements. Following is a list of improvements for each of the sectors of BMES at UCI that we hope to achieve next year to help our chapter reach new heights and better serve the biomedical engineering community.

Sector	Next Year's Goals
General	<ul style="list-style-type: none">• Increase the number of memberships and improve retention• Improve faculty involvement• Promote equitable access to our events• Further collaborations with graduate students through our relationship with the Graduate Association of Biomedical Engineering Students• Share resources and serve as a model for other BMES student chapters
Project	<ul style="list-style-type: none">• Continue developing novel workshops and hands-on projects to retain upperclassmen• Use our previous successful workshops to gain increased funding to grow and improve the mini-projects• Collaborate with the Engineering Student Council to secure a permanent workspace for engineering student organizations
Mentorship	<ul style="list-style-type: none">• Improve the diversity of industry, graduate, and medical mentors to ensure more mentees can match or have access to information on their relevant specialities in BME• Continue fostering the relationship with the UCI School of Medicine Tutor Program to obtain more medical student mentors
Industry	<ul style="list-style-type: none">• Increase the number of medical device companies BMES at UCI has a trusted connection with, and holds novel events with them• Develop events to support our pre-health members through clinical internships or other paid clinical experiences• Continue to maintain and uphold the reputation of BMES at UCI amongst graduate students, faculty, and industry representatives

Outreach	<ul style="list-style-type: none"> Continue increasing the depth and quality of the Jr. BME program to better inform middle school and high school students about biomedical engineering Potentially collaborate with Mentorship to create a mentorship program for our Jr. BME members
Social	<ul style="list-style-type: none"> Continue fostering an inclusive community and making lasting friendships between members Further increase the reach of BMES at UCI to more of our community through novel and fun socials
Fundraising	<ul style="list-style-type: none"> Create financial partnerships and official sponsors for BMES at UCI to help increase funding for all sectors Collaborate with Social to create fundraisers that also build connections within our club, and with our community

XV.B. Outline of Goal Achievement Strategy

With the goals for next year outlined above, the Executive Board will support and work with all the sectors of the Board to ensure these goals are reached. Historically, the Board of BMES at UCI has been a tight-knit community that supports each other in our pursuits, and so the Executive Board will work towards fostering that environment again where everyone feels motivated to contribute and work together towards the growth of the club. In accomplishing our goals, we hope to grow membership, increase our impact on our members, improve access to high-quality extracurricular events, establish more partnerships on and off campus with research labs and industry, and foster a community of like-minded engineers that are fascinated with biomedical engineering. In the Goal Achievement Strategy Table below, we developed actionable strategies for accomplishing Next Year's Goals.

Sector	Goal Achievement Strategy
General	<ul style="list-style-type: none"> Each year, BMES at UCI has been on a trend of growth in memberships. Next year, we will accelerate this growth by leading and being visible in more collaborations with other engineering student organizations. The Executive Board has already begun making connections with future student leaders in the engineering community, and will use those relationships to continue spreading awareness of BMES at UCI and our programs. For every student organization on campus, retention throughout the year can be a challenge. This year, we have seen an improvement in the number of students who remain active in our events due to our Board reaching out and

	<p>making our General Members feel welcome and known. Also, incentives at our events, like the free keychains / mini-projects from the project program, and prizes for winning our social competitions, have likely contributed to more students returning. Next year, we will work towards securing more funding to ensure that we can have more and larger incentives to attend our events. Also, the Executive Board will encourage all of the Board to make supportive connections with our General Members so everyone feels more inclined to come to our events to see their friends. Lastly, always being open to feedback and using it to develop and refine our programs in novel ways will ensure that all members, even upperclassmen, get a fulfilling and meaningful experience from our chapter.</p> <ul style="list-style-type: none"> Our President has already established relationships with a majority of the UCI BME Faculty, and will attend more faculty meetings to continue their involvement in our events. Similarly, the Executive Board will communicate with the Graduate Association of Biomedical Engineering Students to gain more volunteers at events, panelists, and mentors while connecting students with research labs on campus. On the topic of equity, the Executive Board will ensure that all students can access our events. On all RSVPs and membership forms, we will have a clause allowing for students to waive the fee if they request assistance due to financial need. Our President also serves on the Council of Equity and Inclusion on the UCI Academic Senate, and will continue incorporating equitable practices into our club policies to ensure that all students feel welcome at our chapter. As one of the leading BMES Student Chapters with 4x BMES Student Chapter Awards, we want to foster the growth of our fellow student chapters. The Executive Board will reach out and create an online community with other Executive Boards to share resources, program ideas, and help answer any questions for developing student chapters. Through this, we hope to improve the quality of all BMES student chapters and further grow our network.
Project	<ul style="list-style-type: none"> With the potential for a new permanent workspace for our workshops, the scope and range of projects possible will be much greater next year. Having a more continuous workshop series was a big success this year, and we are excited to see the creation of longer-term projects to help people on campus (such as helping Dr. Berk the ADA Coordinator of UCI to create a custom wheelchair). To support these larger projects, we will work towards larger sponsorships from companies. Our technical skills workshops (Arduino, SolidWorks, and programming) in the Fall quarter have continued to be a huge success among our underclassmen, with many students saying our workshops were a great way to

	<p>prepare for their major required classes. However, we have lower attendance in the fall for upperclassmen who are already proficient at the skills, so developing incentives for volunteering at these events or starting the long-term projects in the Fall in parallel would help keep upperclassmen more engaged.</p> <ul style="list-style-type: none"> Our entrepreneurship competition, Open MIC, was overall an outstanding success on many fronts. Our industry representatives were amazing judges who gave constructive and encouraging advice to our participants, with many members making connections with them on LinkedIn. This competition saw good engagement from all different years of undergraduates, and we only received positive feedback from the attendees. Next year, we would like to continue improving the resources we provide to participants in developing their pitches, and get faculty and industry representatives involved in the creation process as well, so students can receive even more feedback to help develop their final pitch. Next year, we will collaborate with Dr. King, one of the heads of the UCI BioEngine program, to get senior design projects involved in our project program through presentations and recruitment at our events, such as the Project Symposium.
Mentorship	<ul style="list-style-type: none"> Our mentorship program has grown immensely with a wide range of student and professional mentors providing valuable mentorship and guidance to our members. This year we had a pretty diverse range of mentors in many different industry positions and fields. We had neuroscientists, aerospace engineers, data scientists, biomechanics researchers, and much more. Next year, we will continue to grow the diversity of this program, utilizing our existing mentor network, and encouraging all of the Board to reach out to their connections as well. We noticed this year that members in our mentorship cohort not only leveraged the mentors they were assigned, but also other mentors in the program to gain connections with more research and industry that aligned with their interests. Next year, we hope to facilitate this further by encouraging students to not only make a group chat with their group, but also join a program-wide online communication platform. This year, we made a connection with the UCI School of Medicine's head of tutoring, which enabled us to reach a lot more medical students to be mentors this year. We look forward to continuing this collaboration to help our members who are pursuing a pre-health career path.
Industry	<ul style="list-style-type: none"> Our Research Symposium and Industry Night remain some of our largest events, and we received lots of positive feedback from students getting internships and research labs from these events. This year, both these events

	<p>were run incredibly well due to the built-up experience of our Industry Coordinators, and using the feedback from previous years. Next year, we will outreach to companies earlier during our sponsorship search, and leverage our past successes to get more representatives at our events.</p> <ul style="list-style-type: none"> ● We will continue to use the UCI Department of Biomedical Engineering Industry Advisory Board to aid in reaching out to industry professionals and expanding our network. ● To help our growing pre-health community, we will develop informational workshops on the path to different pre-health careers and use our network to invite different health specialists to talk about their journeys on panels. We will also reach out to local certification programs to help secure our members discounts for obtaining a CPR, EMT, or other various programs.
Outreach	<ul style="list-style-type: none"> ● We have seen another year of exponential growth in our Jr. BME program and other outreach programs. Each year, we continue to further develop and refine our curriculum so our participants can get as comprehensive and in-depth coverage of what biomedical engineering looks like. Next year, we would like to use our new ESP-32 microcontrollers to help teach students about wireless communication, which is essential for a multitude of medical devices. ● The growth of this program has been so amazing that we have also outgrown a majority of the lecture halls at UCI. Next year, we will work with the department to book the largest possible lecture halls and split workshops into different rooms if needed. ● This year, we also greatly improved on the medical device presentations for our outreach program with a great increase in the number of presentations at the end of our program. Next year, we will invite faculty, graduate, and undergraduate researchers to talk about unmet clinical needs or their research to help inspire project ideas, as ideation is commonly the hardest part of the process. ● Our in-person and online visits to several schools have been a great success, with the students we reached being incredibly excited to learn more about biomedical engineering. Next year, we hope to establish direct relationships with the guidance counselors and various schools to spread the word of our Jr. BME program and to share more about the field of biomedical engineering. ● Next year, we also hope to pursue a collaboration between Outreach and Mentorship to help connect the students in Jr. BME with student and professional mentors. This would allow our high-school students to get personalized mentorship and insight into research, industry, and the general university experience. This would be an incredibly valuable opportunity in particular for our first-generation students, whom we already informally

	mentor through conversations during our events or over email.
Social	<ul style="list-style-type: none"> Our Activities Coordinators have hosted many novel events this year that were incredibly fun. Lots of activities were custom made such as our trivia, icebreakers, jeopardy, bingo, and etc. The high effort put into these socials showed the General Members how much the Board values each member's experience, which led to increased retention. The weekly study hours also naturally helped create a tight-knit community of engaged General and Board Members. Next year, we hope to continue the creation of these casual social events that build camaraderie within the club, and develop friendships between the Board and General Members. This year, we also piloted new forms of reaching members, such as TikTok, and through different social media interactions such as Board Takeovers. This has helped our General Members get to know more about our club and our Board Members in a modern and fun way. Next year, we will encourage more Board members to do a takeover over the BMES at UCI Instagram and to continue experimenting with new methods for reaching out to more people in the BME community at UCI.
Fundraising	<ul style="list-style-type: none"> Historically, we have obtained sponsorships towards specific events such as Open MIC or Industry Night, which have been greatly successful, but don't leave much open funding to create new programs during the year in response to feedback. Next year, we will actively seek larger sponsorships for our organization as a whole, and offer companies official sponsorship benefits such as logo placement on our club materials, recognition at our events, access to our pool of amazing members for recruitment, and personalized "thank you" gifts. This will allow us to know our budget further in advance, and give each sector more funding since some companies have demonstrated interest in sponsorships in the past, but needed more advance notice to put it into their budgets. Another successful method for raising money this year has been holding fundraisers with various restaurants and shops at the University Town Center (UTC) next to campus. Next year, the Executive Board will facilitate collaborations with the Activities Coordinators to hold more socials at UTC to help raise funds. We will continue to host Charity Field Day as a way to involve faculty, graduate students, and undergraduate students in donating back to our community while having some casual fun outdoors. Next year, we will advertise this event earlier and get our regularly attending faculty to encourage their peers to attend the event to improve attendance.