

Dear BED members,

Believe it or not -- June is finally here and we are only weeks away from our first in person meeting in 2 years! Hurray! If you haven't already done so, please remember to register (if you are coming), setup housing, and most importantly -- purchase your dinner ticket for our BED Reception!!! Great time to finally catch up with friends. Also - please be sure to note that we have several incredible sessions to grow our community -- thanks to the innovativeness of Tanya Nocera and Sarah Rooney!

I am also happy to highlight how great our BME members are -- as our very own BED Alyssa Taylor, Associate Teaching Professor in Bioengineering from University of Washington received the Outstanding Teaching Award from the ASEE Zone IV Conference. Congratulations Dr. Taylor!!! Thank you for your passion and commitment to Bioengineering Education!

Best

Aileen

Be well and in peace,

Aileen Huang-Saad, BED Division Chair

The Roux Institute, Northeastern University

### **BED Announcements for 6/1/22**

*General Announcements (e.g. upcoming Webinars, upcoming seminars, upcoming grants, publication opportunities, etc.)*

- 1. CALL FOR NEWSLETTER CONTENT:** ASEE BED Bi-monthly Newsletter
- 2. CALL FOR PARTICIPATION:** Opportunity to receive personalized assistance with implementing student-centered teaching practices into their engineering course(s) (@No cost to participant or institution - NSF funded project led by Dr. Shane Brown from Oregon State University and Dr. Prateek Shekhar from the New Jersey Institute of Technology)
- 3. STUDY INVITATION:** Looking for Undergraduate Engineering Students with and without Internship Experiences
- 4. CALL FOR NOMINATIONS:** BMES is seeking board nominations 2022. Due June 13, 2022
- 5. CALL FOR NOMINATIONS AND SELF-NOMINATIONS:** ASEE Board Members

*BME Education Resources for You*

- 1. CALL FOR PARTICIPATION:** ASEE 2022 - June 26-29, 2022

*Position Announcements*

- 1. POSITION ANNOUNCEMENT:** Director of Faculty and Student Training in Biomedical Engineering, Georgia Tech and Emory University
- 2. POSITION ANNOUNCEMENT:** Masters of Translational Medicine (MTM) Program Director, Bioengineering, Main Campus-Berkeley

*Engineering Education Research*

- 1. National Academies Press: Discipline Based Education Research (2012)**

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*General Announcements*

## 1. **CALL FOR NEWSLETTER CONTENT:** ASEE BED Bi-monthly Newsletter

As of 2021, the ASEE BED has started to share a bi-monthly newsletter with the community. We share general resources, BME Education Resources for Students and Faculty, Upcoming Positions, Engineering Education Research Resources. Information will be shared in consecutive emails. If you have information to share with the community, please send your announcement to the BED listserv, as a 2-3 paragraph description including any relevant URLs and contact info as well as a subject line. Do not include any attachments. Be sure that the announcement includes the person to contact with questions. Email all of this information to Aileen Huang-Saad at [a.huang-saad@northeastern.edu](mailto:a.huang-saad@northeastern.edu) with [BED Announcement] in the subject line to facilitate email sorting. Announcements will be sent out on the 1st and 15th of each month. Each set of announcements will be included in the announcements email twice. Announcements will also be recorded on the BED website (<https://sites.asee.org/bed/>) and HUB (<https://aseehub.asee.org/groups/home/34#active-group-members>).

## 1. **CALL FOR PARTICIPATION:** Opportunity to receive personalized assistance with implementing student-centered teaching practices into their engineering course(s) (@No cost to participant or institution - NSF funded project led by Dr. Shane Brown from Oregon State University and Dr. Prateek Shekhar from the New Jersey Institute of Technology

Project details:

The purpose of this project is to assist engineering faculty implementing student-centered teaching practices (e.g., active learning) in their courses and to inform structured approaches to support faculty attempts to do so. We are seeking current engineering faculty to participate.

Project activities:

1. Initial recruitment survey linked below.
2. Interviews about teaching practices. You will receive \$60 for your participation.
3. Getting support from this project team before/during/after teaching a course you are interested in implementing student-centered teaching practices. You will receive \$1000 in compensation for your participation.

Initial recruitment survey: If you are interested in participating, please fill out this online survey linked here which will take approximately 5-10 minutes to complete. You can also copy and paste this link directly into your browser: [https://oregonstate.qualtrics.com/jfe/form/SV\\_eXvzXqgCsmBMF1A](https://oregonstate.qualtrics.com/jfe/form/SV_eXvzXqgCsmBMF1A)

Please feel free to distribute this invitation to other engineering faculty. We would also appreciate it if you would provide us with names and contact information for colleagues of yours who might be interested in participating in this research project.

For more information about this project, please contact the principal investigator, Dr. Shane Brown, by email at [shane.brown@oregonstate.edu](mailto:shane.brown@oregonstate.edu).

1. **STUDY INVITATION:** Looking for Undergraduate Engineering Students with and without Internship Experiences

Dr. Hueck from Walden University is looking for approximately 200 undergraduate engineering students across the U.S. with and without internship experiences to participate in a short, anonymous online survey for my research study on effects of internships on student competencies in engineering education. The study is part of my doctoral research addressing work-based educational strategies in higher engineering education. Walden University's IRB approval number for this study is 04-13-22-0649259 and it expires April 12, 2023. Undergraduate engineering students are asked to complete a 10-min, multiple-choice online questionnaire, after a page of study information and implied consent, both housed in MonkeySurvey. The survey is voluntary and 100% anonymous, and I will not be able to identify any participating students or their educational affiliation. Participation in the survey will help to advance knowledge on the effects of internships in engineering education for the benefit of future engineers.

Direct link and QR code to the survey is here:

[https://www.surveymonkey.com/r/LEARN\\_MORE](https://www.surveymonkey.com/r/LEARN_MORE)



Any help in distributing the study invitation to interested undergraduate engineering students will greatly help this research. For questions, contact: Isgard Hueck at [isgard.hueck@waldenu.edu](mailto:isgard.hueck@waldenu.edu) or on my LinkedIn page.

1. **CALL FOR NOMINATIONS:** BMES is seeking board nominations 2022. Due June 13, 2022

BMES is preparing for their 2022 [BMES Board](#) elections, and a critical step in this process is the nomination of colleagues committed to growing BMES as the lead society in biomedical engineering. **Please take a moment to think of whom would best represent BMES interests, and consider nominating yourself as well.**

As the nomination form states, BMES is actively seeking a diverse slate of candidates for one Secretary/ Executive Committee member and four Board of Directors positions. These positions are part of the leadership pathway within BMES. As outlined in their [nomination brief](#), BMES sought nominees with professional experience in sectors that align with BME, including university, industry, medicine, business, and government. BMES encourages all interested parties that meet the qualifications to [complete the nomination form](#) or nominate a qualified colleague.

1. **CALL FOR NOMINATIONS AND SELF NOMINATIONS:** ASEE Board Members

With the annual conference approaching, it is time to plan for BED officer elections. There will be more information coming your way soon about how the election mechanics will work this year. In the meantime, you should know that due to the unique circumstances of this year's conference, all BED members can run for an office and will be able to vote in the elections, whether or they have registered for the conference.

BED officers serve a variety of functions to help ensure that we have a great BED program at the conference. The officers also conduct other division business throughout the year as well. We encourage you to attend the BED business meeting at the conference to learn more about the division and the officer positions.

Our bylaws require us to have at least two members running in an election for every open position, **so we encourage you to consider running for the following open positions:**

Program Chair-Elect: Manages the Work In Progress portion of BED program at the Annual Conference. It is expected that this individual will subsequently serve as Program Chair, Division Chair, and Division Past Chair in the following 3 years. (1-year term with subsequent commitments totaling 4 years)

Secretary / Webmaster: Records minutes at the BED business meeting and other meetings throughout the year, produces division publications, and maintains BED website. (1-year term)

Events chair: Organizes and plans the BED social and awards dinner at the Annual Conference, and any other events that arise. (1-year term)

Member at Large: Serves as judge (and recruits other judges) for the poster session at the Annual Conference, serves as judge for the BED Travel Award(s), and serves in other capacities on an ad-hoc basis. (3-year term)

If you are interested in running for an officer position (or would like to nominate someone else), please contact Renata Ramos Nominating Committee Chair ([rfr1@rice.edu](mailto:rfr1@rice.edu)) by Monday, June 13. Candidates should also prepare a 1 paragraph bio that will be shared with the division before voting occurs.

Also please visit the officer's webpage (<https://sites.asee.org/bed/contact-us/>) if you would like to contact our current officers directly to get more information on the responsibilities/work load for a particular position.

### ***BME Education Resources for You***

#### **1. CALL FOR PARTICIPATION: [ASEE 2022 - June 26-29, 2022](#)**

ASEE 2022 is right around the corner -- please remember to register and also sign up for our annual BED Social -- this will be a great opportunity for us to gather and catch up after 2 years of virtual meetings. We will also be celebrating our awards winners! Come see who is making BED proud! Looking forward to seeing you all there!

## *Position Announcements*

### **1. POSITION ANNOUNCEMENT: Director of Faculty and Student Training in Biomedical Engineering, Georgia Tech and Emory University**

#### **Job Description**

The Wallace H. Coulter [Department of Biomedical Engineering](#), a joint department between Georgia Tech's College of Engineering and Emory University's School of Medicine (Atlanta, GA), invites applications for its Director of Faculty and Student Training, an academic faculty position. This position is part of the [academic professional](#) faculty track. The position supports the use of evidence-based state-of-the-art pedagogical practices by the Coulter Department's faculty and teaching assistants. The departments' goal is to create learning environments in which diverse students and instructors can thrive. This position will be appointed through and located at the Georgia Institute of Technology.

#### ***Specific functions and responsibilities include:***

- Ensure the department's innovative pedagogical approaches and curricular programs are implemented with high fidelity
- Design, implement and assess training activities for Ph.D. students and faculty on effective teaching.
- Advise the Executive Director of Teaching and Learning on matters related to faculty teaching performance
- Help administer the following aspects of the graduate program:
  - Partner with faculty instructors to conduct graduate student ethics training for second-year BME Ph.D. students
  - Assist PhD Program Manager with tracking graduate student ethics and teaching assistant (TA) training for all BME Ph.D. students, and monitoring compliance with Georgia Tech and Emory University requirements
  - Coordinate graduate student TA training in collaboration with the Center for Teaching and Learning (GT) and the Laney Graduate School (EU) for all BME Ph.D. students
  - Set TA expectations, perform classroom observation, mediate instructor/TA conflicts, and review TA evaluations
- Teach the equivalent of three sections of required [undergraduate](#) or [graduate](#) courses per year from the department's existing curriculum. (This number may be reduced to allow for participation in sponsored research projects).

#### **Required Qualifications**

- This position requires a terminal degree (Ph.D., Ed.D., or equivalent)
- The exact starting rank will depend on their education, experience, and specialization of the selected candidate

## How to apply

Initial screening of applicants will begin on May 1, 2022 and continue until the position is filled. To submit an application, please include:

1. A cover letter that addresses your qualifications for this position;
2. a resume/CV;
3. a statement of education interests addressing teaching interests as well as your advising/mentoring philosophy, not to exceed 1 page;
4. a statement describing your understanding of, prior engagement and vision for creating inclusive learning environments, not to exceed 1 page;
5. the names, titles and contact information (email, phone) for five professional references.

Application materials should be submitted via the Georgia Tech's Application Website (<https://hr.gatech.edu/employment/careers>). Job number 239043.

1. **POSITION ANNOUNCEMENT:** [Masters of Translational Medicine \(MTM\) Program Director, Bioengineering, Main Campus-Berkeley](#)

Berkeley Engineering is among the top three engineering schools in the United States, and is the second largest college at UC Berkeley. The Department of Bioengineering, established in 1998 and now ranked among the top ten bioengineering programs by the National Research Council, is the newest Department in the College of Engineering and hosts a vibrant and growing community of faculty and students. The Bioengineering community consists of almost 800 students, 45 department faculty plus over 100 affiliates on two campuses (Berkeley and UCSF), and is associated with numerous interdisciplinary research initiatives spanning a number of colleges on several campuses.

The health and life sciences are in the midst of a profound revolution triggered by new and fundamental advances in fields as diverse as molecular/cellular biology and information technology. New technologies, new health care policies, and the global pandemic have all increased the demand for better medical devices, diagnostics, and therapeutics. The Masters of Translational Medicine (MTM) Program is designed for engineers, scientists and clinicians who seek to bring innovative treatments and devices into clinical use. The curriculum includes cross-cutting material in the translational aspects of therapeutic science and the principles of engineering design.

The responsibilities of the Director include the oversight of all strategic planning, program development, academic affairs, budget matters, and research initiatives under the scope of the MTM Program. At a high level, this program seeks to develop leaders who will create and drive the solutions to today's most pressing health problems by providing graduate education biotechnology, clinical skills, technology translation, technology management, innovation, and entrepreneurship. This position will also take a lead role in establishing connections to the biotech and medical industries to assist program graduates in technology translation and career placement.

The First Review Date for this job is: June 13, 2022 - Open Until Filled

1. [National Academies Press: Discipline-Based Education Research \(2012\)](#) Many people new to engineering education research have asked about its origins and how it's different from SOTL and DBER. This document is a great overview of DBER -- and helps ground the community on how there are many different aspects of education research and the critical role it plays in engineering and science

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Associate Professor of Bioengineering

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To make an appointment click [here](#)

[Linkedin](#) [Twitter](#)