

Dear BED members,

Greetings! Hopefully, everyone surveyed the end of the semester and have been able to not only celebrate your students but yourselves for a semester/year well done!

ASEE is right around the corner, and we are in full preparation mode. Thanks to the hard (oh so hard) work of [Tanya Nocera](#) and Sarah Rooney, we have an exciting week planned and we are also looking forward to our first in person BED reception in two years (thanks Ruth Ochia!). Remember that your final drafts of your ASEE papers must be submitted May 16, 2022 ! Also -- if you are interested in serving as an officer for BED -- we have several openings this year:

Program Chair-Elect: **OPEN**

Secretary/Webmaster: **OPEN**

Events Chair: **OPEN**

Members-at-Large (1): **OPEN**

Please feel free to self-nominate or nominate a colleague. If you have any questions about what the job entails -- feel free to reach out to anyone on the board ([Officers / Contact – ASEE Biomedical Engineering Division](#)). More details regarding the election process will follow from our Past Chair, Renata Ramos. Please consider joining us!

We all look forward to seeing you in Minneapolis!

Best

Aileen

Be well and in peace,

Aileen Huang-Saad, BED Division Chair

The Roux Institute, Northeastern University

BED Announcements for 5/15/22

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:** ASEE 2022 Registration is now Open - Early Registration ends May 17
- 3. 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
- 4. STUDY INVITATION:** Looking for Undergraduate Engineering Students with and without Internship Experiences

BME Education Resources for You

- 1. CALL FOR PARTICIPATION:** Applications for the 2022 Design by Biomedical Undergraduate Teams (DEBUT) challenge are now open!
- 2. CALL FOR PARTICIPATION:** BEEC Teaching Biotransport (May 25)

Position Announcements

- 1. POSITION ANNOUNCEMENT: Lecturer of Biomedical Engineering – IUPUI (Indianapolis, IN)**

2. **POSITION ANNOUNCEMENT:** Cluster Hire in Computing and Data Science at Florida Gulf Coast University (FGCU)
3. **POSITION ANNOUNCEMENT:** Postdoctoral Teaching Fellow/Lecturer - Global Health Technologies for the 2022-2023
4. **POSITION ANNOUNCEMENT:** Director of Faculty and Student Training in Biomedical Engineering, Georgia Tech and Emory University

Engineering Education Research

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

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 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:** ASEE 2022 Registration is now Open

This year's ASEE2022 will be in Minneapolis, Minnesota. [Registration is now available](#) -- Early registration closes May 17!!!

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

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.

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



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 or on my LinkedIn page.

BME Education Resources for You

1. **CALL FOR PARTICIPATION:** Applications for the 2022 Design by Biomedical Undergraduate Teams (DEBUT) challenge are now open!

Applications for the 2022 **Design by Biomedical Undergraduate Teams** (DEBUT) challenge are now open! **DEBUT**, a competition offered by the National Institute of Biomedical Imaging and Bioengineering (NIBIB) and VentureWell, offers **prizes of up to \$20,000** to teams of students in undergraduate biomedical education developing innovative solutions to real-world problems in healthcare.

1. **CALL FOR PARTICIPATION:** BEEC Teaching Biotransport (May 25)
When: **May 25th, 2022 1:00 PM - 2:00 pm(EST)**.

Lead: **Zhongping Huang, PhD** - West Chester University

If you are interested to be part of this discussion, collaborating, contributing, or just learning something new don't miss it!

See you all there! (Register here: [Meeting Registration - Zoom](#))

Position Announcements

1. **POSITION ANNOUNCEMENT: Lecturer of Biomedical Engineering – IUPUI (Indianapolis, IN)**

The Biomedical Engineering (BME) Department within the Purdue School of Engineering and Technology at Indiana University-Purdue University Indianapolis (IUPUI) invites applicants for a Lecturer position beginning as soon as August 1, 2022. The primary responsibility of this position is to teach undergraduate courses and/or labs in biomedical engineering (60% effort), leading weekly hands-on laboratories, and assisting senior capstone teams with design-related needs. Additional responsibilities include the maintenance and calibration of academic laboratory equipment and maintaining inventory in academic laboratories (20% of effort). Service to the department will include assisting with recruitment activities (20% of effort). Additional opportunities for compensated teaching and service may be available beyond the 10-month appointment during the summer, subject to need and availability of funding. Excellent communication skills and the ability to successfully interact with students, faculty, staff, and department collaborators is essential. More information about the Biomedical Engineering Department at IUPUI can be found at: <https://et.iupui.edu/departments/bme/>

Contact: Steve Higbee, PhD (sjhigbee@iupui.edu)

Apply: <https://indiana.peopleadmin.com/postings/12787>

1. **POSITION ANNOUNCEMENT:** Cluster Hire in Computing and Data Science at Florida Gulf Coast University (FGCU)

FGCU is conducting an open-ranked search for seven new cross-disciplinary lines which will have their primary appointment within the U.A. Whitaker College of Engineering. The goal is to create a cluster of faculty with cross-disciplinary expertise in data science, artificial intelligence, cybersecurity and machine learning, who will have the opportunity to engage in cross-disciplinary curriculum development and research within and across these broad areas. The areas of emphasis include Cybersecurity (CCDS-01), Data Analytics and FinTech (CCDS-02), Biomedical Computing/Health Informatics (CCDS-03), Computational Statistics (CCDS-04), Hydroinformatics (CCDS-05), Engineering Education and Technology (CCDS-06) and Entrepreneurship of Advanced Technologies (CCDS-07). Home departments within the college will be determined based on the candidate's expertise and synergies within the department.

FGCU is a regional university located in Fort Myers, Florida with approximately 16000 students and 500 faculty members. We are currently celebrating our 25th anniversary as a university with the U.A. Whitaker College of Engineering celebrating its 15th year of existence. The college has ABET-accredited programs in Bioengineering, Civil Engineering, Environmental Engineering and Software Engineering, as well as a newer Master of Science in Engineering degree (general) and a Construction Management Program.

Application review will begin on April 22, and the search will remain open until all positions are filled. Candidates are expected to teach, conduct research, be involved in course and/or curriculum development, take part in college and university committees and engage in community service. The proportion of teaching, research, and service that will be expected in the primary and secondary units will depend on the candidate's expertise. The anticipated start date for these positions is as early as August 7, 2022. Additional information including application information can be found searching for the positional requisition number (R0002516) at <https://fgcu.edu/hr/jobs-at-fgcu>

1. **POSITION ANNOUNCEMENT:** Postdoctoral Teaching Fellow/Lecturer - Global Health Technologies for the 2022-2023

The Rice360 Institute for Global Health Technologies ([Rice360](#)), at Rice University in Houston, TX, is seeking a postdoctoral **Teaching Fellow/Lecturer - Global Health Technologies** for the 2022-2023 academic year! The attached contains details on the position and application requirements. Interested persons may apply at the Rice University faculty jobs website [here](#), starting next week. Questions regarding the opportunity or application process may be directed to ymirabal@rice.edu.

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.

Engineering Education Research Resources

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

To send an announcement to the BED listserv, please prepare 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 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>).

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To make an appointment click [here](#)

[LinkedIn](#) [Twitter](#)