

Dear BED members,

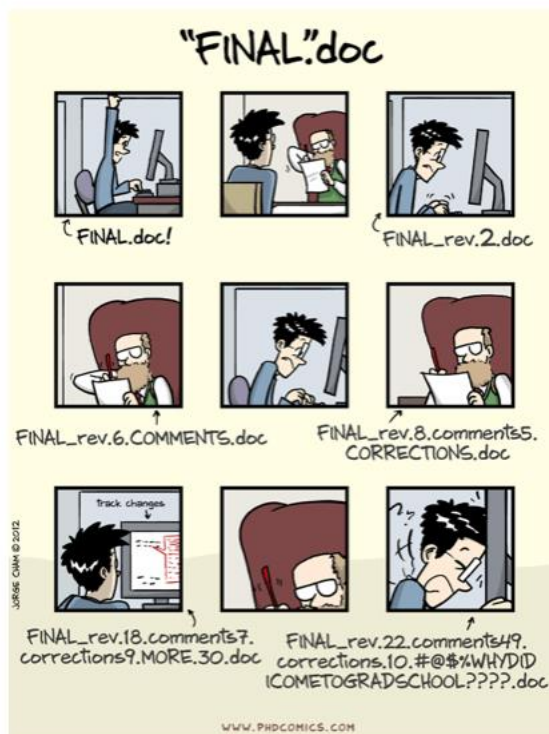
Happy almost December! I don't know about you -- but it's been a hectic time -- yesterday I said to someone, "It's been such a warm December!" and then they reminded me that it wasn't December -- YIKES.

I know we are all in a crazy time of the semester -- so I'll leave today's note short and simple. We have added one new job posting for Duke University and BEEC activities will pick up again in January with their Annual online BEEC meeting (January 12, 2023) and a BEEC Share and Learn with Dr. Jenny Amos, University of Illinois (January 18, 2023).

The Newsletter will take a short break for the holiday and restart January 15, 2023, led by Dr. Tanya Nocera, this year's BED Division Chair. Thus, any newsletter content can be sent directly to nocera.15@osu.edu. It's been a pleasure sharing the great things going on in the BME/BIO community with everyone! Happy Holidays!

Be well and in peace,

Aileen Huang-Saad, BED Past Division Chair
The Roux Institute, Northeastern University



BED Announcements for 11/30/22

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 CDEI Team/Committee

3. **CALL FOR PARTICIPATION:** Submit to share DEI resource/experience (especially blog post)
4. **CALL FOR PARTICIPATION:** ABET Program Evaluators (PEVs) for bio/biomedical engineering programs (Apply by 12/31/22)

BME Education Resources for You

1. **CALL FOR PARTICIPATION:** Biomedical Engineering Education Community
 - a. *New Teaching Tuesdays* (Every Tuesday in Slack!)
 - b. Save the Date for our **Annual BEEC meeting** (January 12th, 2023)

Position Announcements

1. **POSITION ANNOUNCEMENT:** Tenure-Track Teaching Assistant Professor, Stephenson School of Biomedical Engineering, University of Oklahoma
2. **POSITION ANNOUNCEMENT:** Post-Doctoral Fellows, BME Education, Cornell University
3. **POSITION ANNOUNCEMENT:** Tenure Track Faculty Position (focus Engineering Education), Biomedical Engineering, Cornell University
4. **POSITION ANNOUNCEMENT:** Professor of the Practice of Biomedical Engineering any level in Biomechanics at Duke University

Engineering Education Research

1. [Cambridge Handbook of Engineering Education Research](#); The Cambridge Handbook of Engineering Education Research (CHEER) is an important reference source for the growing field of engineering education research (EER).

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>).

2. **CALL FOR PARTICIPATION:** Join a CDEI team/committee <https://diversity.asee.org/deicommitee/join-a-committee/>

3. **CALL FOR PARTICIPATION:** Submitting to share DEI resource/experience (especially blog posts) <https://docs.google.com/forms/d/e/1FAIpQLSfG1ZhVEHFPNDHWDpiMdx5kfOaUZf0go-JxmBXD9-F6NZ2rBQ/viewform>

4. **CALL FOR PARTICIPATION:** ABET Program Evaluators (PEVs) for bio/biomedical engineering programs

BMES Accreditation Activities Committee (AAC), seeking your assistance in reaching viable candidates to become ABET Program Evaluators (PEVs) for bio/biomedical engineering programs. Since the ASEE BED is composed of individuals interested in and committed to improving bio/biomedical engineering education, this seems like a highly appropriate pool to contact.

Currently, BMES AAC is responsible for managing the ABET accreditation of nearly 160 bio/biomedical engineering programs worldwide — in recent years, ABET has typically received initial accreditation requests from 5-10 new bio/biomedical engineering programs annually. BMES AAC works to assign and support the PEVs needed to execute renewal (6-year cycle) and initial accreditation requests each year, as well as to inform bio/biomedical engineering programs seeking initial or renewed accreditation of accreditation changes and/or commonly reported issues.

Please note that BMES AAC seeks to protect young faculty from potential oversubscription by requiring at least 6 years of post-baccalaureate experience in a bio/biomedical engineering position in industry, government and/or academia, excluding years of full-time education and training, to qualify as a PEV Candidate (PEVC). Society membership in BMES (the lead society for bio/biomedical engineering accreditation) or one of the cooperating societies (ACerS, AChE, ASABE, ASME or IEEE) is also required. (ASEE is the lead society for accreditation of general engineering programs that do not have program-specific criteria — I am actually a PEV for both BMES and ASEE.) A more detailed description of requirements and benefits is included in the attached one-page flyer and online at <https://www.abet.org/program-evaluators/become-a-program-evaluator/>.

Serving as a PEV is a service to the profession that allows better understanding of the ABET accreditation process as well as connection with other PEVs and visibility into the pedagogical approaches implemented by other programs. PEV knowledge and experience with the accreditation process, when applied to the generation of accreditation materials for their home program's accreditation review cycle, is beneficial for the home program by increasing the likelihood that evidence of compliance is presented to the reviewing PEV in a clear and concise manner.

PEVC application deadline is 12/31/22 via the ABET website (<https://www.abet.org/program-evaluators/become-a-program-evaluator/>) — this allows scheduling and conduct of PEVC training in Spring 2023, in advance of assigning new PEVs to reviews in the 2023-2024 ABET accreditation cycle (visits in Fall 2023).

Questions? Contact Carol Mullenax <naxshark@yahoo.com> **Apply before the December 31st deadline.**

BME Education Resources for You

1. **CALL FOR PARTICIPATION:** Biomedical Engineering Education Community

a. Teaching Tuesdays!

Over on our slack channel, we are having monthly discussions around one topic. For the month of October, we will be discussing:

How do you implement problem-based learning in your course?

Hop over to Slack and join the conversation!

b. Annual BEEC Meeting 2023!

Exciting news! Our upcoming meeting (January 12th, 2023) will be a little different. We will still host a keynote, but will **focus more on presentations!** Our goal is to have enough presentations to be able to **award three authors** an invitation to go through the peer-review process in the Biomedical Engineering Education Journal (BIEE)! Stay tuned for more details!

Abstract template: [LINK](#)

Position Announcements

1. POSITION ANNOUNCEMENT: Tenure-Track Teaching Assistant Professor, Stephenson School of Biomedical Engineering, University of Oklahoma

The Stephenson School of Biomedical Engineering (SBME) in the Gallogly College of Engineering at the University of Oklahoma seeks applicants for a full-time tenure-track Assistant Professor of Biomedical Engineering with teaching emphasis. SBME encourages applications from all interested and qualified parties. The mission of the Stephenson School is to educate the next generation of biomedical engineers and to create new technologies that advance human health, and this position is aligned with the Educational Pillar of the SBME Strategic Plan. The targeted start date is August 2023. Applicants are invited at <https://apply.interfolio.com/115373>. Review of applications will begin on November 30, 2022. Inquiries may be sent to the search committee chair: Dr. Michael Detamore, Director and Professor of Biomedical Engineering, University of Oklahoma, detamore@ou.edu.

2. POSITION ANNOUNCEMENT: Post Doctoral Fellows, BME Education, Cornell University

Applications are being sought for Postdoctoral Fellows in Engineering Education in the Meinig School of Biomedical Engineering at Cornell University. These Fellows will take a leading role in the design, implementation, and assessment of a transformational pedagogical strategy for Biomedical Engineering curriculum to be tested through remodeling of a 5-course core sequence.

Successful candidates will co-design, implement and evaluate a unique Studio Pedagogy in collaboration with instructional faculty and teaching assistants in partnership with faculty in the Department of Architecture. They will create and implement new integrated classroom training activities, lecture materials, and assessments that will be tested and improved between courses and over semesters. Further, Fellows will design innovative individualized training resources to complement classroom learning and preparation. They will co-lead educational activities with faculty, teaching assistants and support staff. This rich educational environment will support rigorous engineering education research evaluating student and faculty shifts in learning and teaching. They further will engage with departmental faculty who have established engineering education expertise. Finally, Fellows will participate in Cornell's nationally-recognized community engagement and educational outreach programs.

Position Requirements: • PhD in an engineering or design-related degree earned no earlier than January 1, 2018 • Training in biomedical science, molecular/cellular biology, or related disciplines • Prior experience in modeling, simulation, and/or coding • Prior experience assisting in teaching of engineering courses

Link to ad.: <https://academicjobsonline.org/ajo/fellowship/21746> If potential applicants have questions about the faculty positions, they can reach out to the search committee at cornellbmeseach@cornell.edu

3. **POSITION ANNOUNCEMENT:** Tenure Track Faculty Position (focus Engineering Education), Biomedical Engineering, Cornell University

The Nancy E. and Peter C. Meinig School of Biomedical Engineering at Cornell University invites applications for tenured or tenure-track faculty position in biomedical engineering, with an emphasis on engineering education research. Candidates must have an earned doctorate in engineering, STEM education, or a closely related field, with a demonstrated potential for success as an independent education research investigator and a classroom educator. Responsibilities include the pursuit of a program of scholarly research in Biomedical Engineering Education; teaching courses in Biomedical Engineering; and advising undergraduate and graduate students. We are especially interested in receiving applications from candidates that embrace diversity, equity, and inclusion. Senior candidates with exceptional accomplishments in research, teaching, and graduate student mentorship are encouraged to apply. Junior candidates must show outstanding research and potential for excellence in teaching and graduate student mentorship. Salary and rank are commensurate with qualifications and experience.

Link to ad.: <https://academicjobsonline.org/ajo/jobs/22905> If potential applicants have questions about the faculty positions, they can reach out to the search committee - Chris Schaffer or Jonathan Butcher at cornellbmeseach@cornell.edu

5. **POSITION ANNOUNCEMENT:** Professor of the Practice of Biomedical Engineering any level in Biomechanics at Duke University

The Duke University Department of Biomedical Engineering is looking for a teaching interested faculty member in the field of modern biomechanics to join our ranks. See below for more information and view the link at [academic jobs online](#).

Job Title:

Professor of the Practice of Biomedical Engineering any level in Biomechanics at Duke University

The Department of Biomedical Engineering and the Pratt School of Engineering at Duke University invite applicants for a teaching track (Professor of the Practice) faculty position in contemporary Biomechanics.

We anticipate hiring at the Assistant Professor of the Practice level, although truly exceptional candidates may be considered at the level of Associate or Full Professor of the Practice. Applicants with industry background are particularly encouraged to apply. Where appropriate, hiring and recruitment will be coordinated as a joint effort with other departments or research centers at Duke University.

By the time of hiring, candidates are expected to have been awarded a doctoral degree in a quantitative field and have significant (>2 years) teaching experience. The ideal candidate will have commitment, passion, and excellence in teaching in a collegial, collaborative community. Candidates should be dedicated to teaching that expands scientific boundaries in service to society and to educating a broad and diverse group of students at both the undergraduate and graduate levels.

Duke University and the Pratt School of Engineering are strongly committed to advancing equity, inclusion, diversity, and community throughout our research, teaching, and service activities. We aspire to create a community built on collaboration, innovation, creativity, and belonging. Our collective success depends on the collegial exchange of ideas - an exchange that is best when the rich diversity of our perspectives, backgrounds, and experiences flourishes. To achieve this exchange, it is essential that all members of the community feel valued and welcome, that the contributions of all individuals are respected, and that all voices are heard. All members of our community are expected to uphold these values, and we seek to hire faculty who are passionate about working to increase the participation and success of individuals from groups underrepresented in engineering and science

Review of applications will start immediately, and applications received before December 15th, 2022 will receive priority consideration. Applications will continue to be reviewed until the position is filled. We expect to hire for the Fall 2023 semester, although we may extend offers to highly qualified individuals who may not be available for a fall start due to postdoctoral research commitments. Questions regarding this search should be directed to Dr. Libby Bucholz at bmepopsearch@duke.edu.

Application Materials Required:

Submit the following items to complete your application:

- Cover Letter
- Curriculum Vitae (including a link to the applicant's Google Scholar page)
- Teaching Statement
- Statement on diversity, equity, inclusion and community
- Example syllabus
- Referee List (names and email addresses of at least three references). Note that letters of recommendation will not be accepted unless specifically requested.

Engineering Education Research Resources

1. [Cambridge Handbook of Engineering Education Research](#); Johri, A., & Olds, B. (Eds.). (2014). Cambridge Handbook of Engineering Education Research. Cambridge: Cambridge University Press. doi:10.1017/CBO9781139013451

The Cambridge Handbook of Engineering Education Research (CHEER) is an important reference source for the growing field of engineering education research (EER). Chapters in this volume draw extensively on contemporary research in the learning sciences to include how technology affects learners and learning environments, and the role of social context in learning. Most university

libraries have access to this online resource. *Spoiler alert -- the Editors have been sourcing the 2nd edition of this book to be released in 2023!*

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 nocera.15@osu.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>).