Dear BED members,

Happy Fall/Winter -- suddenly it's gotten pretty cold here in Maine. I hope everyone is well -- we are at the point in the semester where I am sure everyone just needs a breather. There are a few things that I specifically wanted to address this week:

ASEE New Deadline 11/30 - As you may have noticed, ASEE has announced a new deadline for abstracts due to some platform issues. We can also look at this as an opportunity to still get that great idea in! Remember, we have a Work In Progress track -- so even if you think you haven't had enough time to "finish" that study -- you can still put together a WIP and get some feedback from your colleagues. I find that having a goal and deadline always helps me move my projects forward.

ASEE Budget Challenges - You are likely also aware that ASEE recently announced that they have some challenges to address with budgeting and finance. This year, one of our division goals was to grow our membership, even before the ASEE financial crisis, as we seek to build a stronger community across biomedical and bioengineering departments. Our hope had been to leverage the ASEE vouchers to recruit new members. While we are not clear where we are with the voucher program, given the financial state of ASEE, we are pausing the voucher campaign, *but not the mission!* Please continue to encourage your colleagues to join us this year in Baltimore -- as it's even more important as we seek to support our organization!

ABET Is Looking for Program Evaluators - A few weeks ago, ABET reached out and asked us to be sure and let everyone know that they are looking for Program Evaluators (details below) -- this is a great opportunity to get out there and learn more about accreditation and other programs. If this is of interest to you -- apply by 12/31/22.

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Finally. There's a spoiler alert at the end of the newsletter   see if you find it!

Enjoy the holidays!

Be well and in peace,

Aileen Huang-Saad, BED Past Division Chair

The Roux Institute, Northeastern University

WHAT YOU BROUGHT TO SEMINAR AND WHAT IT SAYS ABOUT YOU:

BED Announcements for 11/15/22

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 SUBMISSIONS:** ASEE Abstract submissions open 10/3 and close on **11/30**
3. **CALL FOR PARTICIPATION:** ASEE CDEI Team/Committee
4. **CALL FOR PARTICIPATION:** Submit to share DEI resource/experience (especially blog post)
5. **CALL FOR PARTICIPATION:** ABET Program Evaluators (PEVs) for bio/biomedical engineering programs (Apply by 12/31/22)

BME Education Resources for You
1. **ASEE BED PAPER SUBMISSION PROCESS:** The American Society of Engineering Education Biomedical Engineering Division Paper Submission Process Explained Webinar Video
2. **ASEE 2023:** Helpful links and information to support your submission
3. **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)
   c. November Share and Learn (Nov 16th, 2022 1:00 PM - 2:00 pm (EST))

Position Announcements

1. **POSITION ANNOUNCEMENT:** Assistant Professor of Engineering, Rockhurst University (Kansas)
2. **POSITION ANNOUNCEMENT:** Biomedical Engineering Communications Faculty in the Department of Biomedical Engineering and Mechanics (BEAM) at Virginia Tech
3. **POSITION ANNOUNCEMENT:** Tenure-Track Teaching Assistant Professor, Stephenson School of Biomedical Engineering, University of Oklahoma
4. **POSITION ANNOUNCEMENT:** Post Doctoral Fellows, BME Education, Cornell University
5. **POSITION ANNOUNCEMENT:** Tenure Track Faculty Position (focus Engineering Education), Biomedical Engineering, Cornell 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).

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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 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 SUBMISSIONS:** ASEE Abstract submissions open 10/3 and close on **11/30**

ASEE 2023 Annual Conference
Baltimore Convention Center, MD. | June 25th-28th, 2023

https://www.asee.org/events/Conferences-and-Meetings/2023-Annual-Conference

3. CALL FOR PARTICIPATION: Join a CDEI team/committee **https://diversity.asee.org/deicommittee/join-a-committee/**

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

5. 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, AIChE, 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. **ASEE BED PAPER SUBMISSION PROCESS:** The American Society of Engineering Education Biomedical Engineering Division Paper Submission Process Explained Webinar Video
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For those who were unable to join during the live webinar on the ASEE BED submission process, you may refer to the recording link: https://capture.udel.edu/media/Submitting+to+ASEE+BED/1_gl70xgmu. Please feel free to pass along to others in your networks who are interested in biomedical engineering education!

2. **ASEE 2023:** Helpful links and information to support your submission

We look forward to receiving your abstracts by Monday, 10/31. I know you're swamped, and 10/31 is just 3 weeks from today (which is also Halloween). BUT... Remember that abstract submissions are low-stakes, so if you're debating whether to submit this year, just do it! That will give you some time to reevaluate for the draft paper submissions due January 31, 2023. A lot can happen in those 3 months (like completing that data analysis), and you don't want to cut yourself short by not submitting an abstract in the first place. Plus, Inner Harbor, Baltimore in summer is lovely, and we're working on putting together a wonderful conference program for our BED community.

Submit directly on the NEMO platform. Other helpful links as you are preparing your submissions:
ASEE 2023 Conference Webpage, which includes the full submission timeline

ASEE 2023 Conference Call for Papers, where the BED Call for Papers is posted
ASEE 2023 Conference Author's page, which includes the Author's Kit and everything you need to know about how to submit
ASEE PEER publication repository
ASEE Biomedical Engineering Division webpage

3. **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

c. November Share and Learn (***Nov 16th, 2022 1:00 PM - 2:00 pm (EST).***)

BEEC's Share and Learn

We are super excited to share with all of you **November's Share and Learn**! Our monthly Share and Learns are meant to serve as networking and collaboration between community members.

Topic: ***"Thrive! Allowing Students to Thrive at Your Institution"***

When: ***Nov 16th, 2022 1:00 PM - 2:00 pm (EST).***

Lead: **Joseph Tranquillo, Ph.D.** - Bucknell University

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

See you all there!

-The BEEC Team

Register Here: https://illinois.us10.list-manage.com/track/click?u=fffd403ce4b593d88efcd2e28&id=e1894fda30&e=21d7b70763

Position Announcements

1. ***POSITION ANNOUNCEMENT:*** *Assistant Professor of Engineering, Rockhurst University (Kansas)*

   The Department of Physics and Engineering at Rockhurst University invites applications for a full time, tenure-track Assistant Professor of Engineering position beginning August 1, 2023. Preferred applicants will hold a terminal degree in Engineering in one of two fields: Biomedical Engineering or Mechanical Engineering. Rockhurst University has ABET accreditation in Civil, Mechanical and Electrical Engineering programs and a growing biomedical physics program. https://www.indeed.com/viewjob?jk=3d6509ea0b0d2151&utm_campaign=google_jobs_apply&utm_source=google_jobs_apply&utm_medium=organic

2. ***POSITION ANNOUNCEMENT:*** *Biomedical Engineering Communications Faculty in the Department of Biomedical Engineering and Mechanics (BEAM) at Virginia Tech*

   We invite applications for a full-time non-tenure track faculty position at the instructor or collegiate assistant professor level, effective August 2023, in areas related to technical communication, professional development of undergraduate students, and engineering pedagogy. We seek candidates motivated to contribute to a collegial, interdisciplinary community with a strong tradition of high-quality teaching, student engagement, and mentoring. For more information or to apply, please visit: https://careers.pageuppeople.com/968/cw/en-us/job/521992/communications-faculty

3. ***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.

4. *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 cornellbmesearch@cornell.edu

5.   *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 cornellbmesearch@cornell.edu

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 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).*