

[bio_div] ASEE BED Announcements: 11/15/23

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via asee.org

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To:bio_div@asee.org <bio_div@asee.org>

Dear BED Members:

We've almost made it! Many schools will be on break next week (or part of next week). I hope you're able to take this time to refresh!

Sarah I. Rooney, ASEE BED Division Chair

University of Delaware

ASEE BED Announcements for 11/15/23

Red = last time announcement is included in newsletter

Congratulations Corner

1. Submit Your Accomplishments

Announcements

1. ASEE BED Newsletter Tidbits

Participate

1. **Nominate for BEEC's Membership Spotlight**
2. NSF Funded Teaching Development Opportunity for Engineering Faculty

Learn

1. **Tidbit:** Generative AI Bloom's Taxonomy
2. Biomedical Engineering Education Community (BEEC) Resources
3. ASEE Commission on Diversity, Equity, and Inclusion (CDEI)- Virtual Workshop Recordings

Open Positions

1. **The Ohio State University:** Assistant or Associate Professor of Industrial Design
2. **UNC/NC State:** Teaching Assistant Professor of Biomedical Engineering

Call for Newsletter Content

Congratulations Corner

1. Submit Your Accomplishments

We're trying something new! Submit [this short form](#) to be featured in an upcoming ASEE Biomedical Engineering Division newsletter to highlight member accomplishments (self-submit or submit on behalf of someone you know). We will highlight accomplishments that are related to BME education and induction of ASEE BED members as fellows of related professional organizations (e.g., BMES, AIMBE). Seeing the teaching and career-related accomplishments of colleagues in education-focused roles has served as important inspiration for me over the years, and I hope it will do the same for you!

General Announcements

1. ASEE BED Newsletter Tidbits

I hope to incorporate a Tidbit in each newsletter. This is just a small tip that you think others might benefit from. It does not necessarily need to be BME education-focused (but can be!), but should at least be something that might help productivity, facilitate professional development, or be of general interest to BED members. Tidbits will be listed in the "Learn" section and attributed to the submitter. To submit a Tidbit, use the process described in the Call for Newsletter Content at the bottom of this newsletter. My goal is that these Tidbits will share useful/practical knowledge and help us get to know more BED members! Please do submit (otherwise, you'll be hearing a lot from me...)!

Participate

1. Nominate for BEEC's Membership Spotlight

Are you a new faculty in the bioengineering/biomedical engineering education world? The BEEC (Biomedical Engineering Education Community) is on the lookout for nominations to feature young and upcoming faculty members in our Member Spotlight! BEEC wants to highlight the new faces in the education community to help with collaboration, networking, and professional development. Fill out [this Google Form](#) to nominate yourself or others.

2. NSF Funded Teaching Development Opportunity for Engineering Faculty

We are seeking current engineering faculty who teach Electrical Circuits or Mechanics of Materials to participate in this program. Participants will receive \$1,000 in compensation and personalized 1-on-1 support from experienced mentors via zoom to develop and implement active learning in your classroom. If you are interested in participating or would like to find out more information about this study, please contact the primary investigator, Dr. Shane Brown, by email at shane.brown@oregonstate.edu

Project Title: Contextualized Scaffolding for Engineering Faculty to Facilitate the Adoption of EBIPs. This project is funded by the National Science Foundation, grant number 2111087.

Learn

1. Tidbit: Generative AI Bloom's Taxonomy

I thought this was a handy way to reflect on how generative AI may impact our learning goals and activities. PDF available at: <https://ecampus.oregonstate.edu/faculty/artificial-intelligence-tools/blooms-taxonomy-revisited.pdf>

Bloom's Taxonomy Revisited

Use this table as a reference for evaluating and making changes to aligned course activities and assessments (or, where possible, learning outcomes) that account for generative Artificial Intelligence (AI) tool capabilities and distinctive human skills.

All course activities and assessments will benefit from **review** given the capabilities of AI tools; those at the **Remember** and **Analyze** levels may be more likely to need **amendment**.



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	RECOMMENDATION	AI CAPABILITIES	DISTINCTIVE HUMAN SKILLS
CREATE	Review	Suggest a range of alternatives, enumerate potential drawbacks and advantages, describe successful real-world cases	Formulate original solutions incorporating human judgement, collaborate spontaneously
EVALUATE	Review	Identify pros and cons of various courses of action, develop rubrics	Engage in metacognitive reflection, holistically appraise ethical consequences of alternative courses of action
ANALYZE	Amend	Compare and contrast data, infer trends and themes, compute, predict	Critically think and reason within the cognitive and affective domains, interpret and relate to authentic problems, decisions, & choices
APPLY	Review	Make use of a process, model, or method to illustrate how to solve a quantitative inquiry	Operate, implement, conduct, execute, experiment, and test in the real world; apply creativity and imagination to idea & solution development
UNDERSTAND	Review	Describe a concept in different words, recognize a related example, translate	Contextualize answers within emotional, moral, or ethical considerations
REMEMBER	Amend	Recall factual information, list possible answers, define a term, construct a basic chronology	Recall information in situations where technology is not readily accessible

2. Biomedical Engineering Education Community (BEEC) Resources

BEEC's website contains recordings, slides, and resources for the biomedical engineering education community. Need ideas for what textbook to use in your BME course? Alternative grading techniques? Funding opportunities in engineering education? Learning more about educational research? Find this and much, much more!

3. ASEE Commission on Diversity, Equity, and Inclusion (CDEI)- Virtual Workshop Recordings

Check out Virtual Workshop Recordings on CDEI's [YouTube Playlist](#)
Check out CDEI:

- LinkedIn: https://www.linkedin.com/company/asee_cdei/
- Twitter: @ASEEDiversity
- Blog: <https://diversity.asee.org/deicommitee/blog/>

Position Announcements

Note: We advertise positions that have a BME education focus to ensure relevance to our BED members. Advertisements may include the following: teaching-focused faculty (TT or NTT) or staff positions, TT positions at PUI or R2+ institutions that have a larger workload and emphasis on teaching, and TT positions that allow for educational scholarship instead of traditional engineering research. If submitting a job posting, please ensure it meets these criteria.

1. The Ohio State University: Assistant or Associate Professor of Industrial Design

The successful applicant will possess the promise of or expertise in the principles of Industrial Design practices as they apply to the research and development of products, services, experiences, and networks that anticipate and envision future needs. We seek a colleague whose research examines materials & processes within broader design contexts (e.g., advanced or novel materials, biomaterials, sustainability), and emphasizes transdisciplinary, collaborative, or ethics-oriented areas of practice (e.g., community-engaged design, discursive design, transitional design, design justice, emerging technologies/AI). The successful appointee might contribute to community-engaged

research and creative activity associated with Ohio State's DESIS Lab, CDME, ACCAD and/or other OSU Centers and Institutes. The ideal candidate will have the capacity to teach a diverse body of students at the undergraduate and graduate levels and will the department's long-standing commitment to cultivating greater diversity of the design professions. More info: <https://design.osu.edu/jobs>

2. UNC/NC State: Teaching Assistant Professor of Biomedical Engineering

UNC/NC State Joint Department of Biomedical Engineering is seeking applicants for a Teaching Assistant Professor in any of the five areas of department specialization, Pharmacoengineering, Regenerative Medicine, Rehabilitation Engineering, Biosignals and Imaging or Medical Microdevices with preference given to Pharmacoengineering, Regenerative Medicine and Rehabilitation Engineering. This is a professional track faculty position with a focus on teaching and education. The individual must work productively and in a collaborative manner across all constituent BME entities, i.e. University of North Carolina College of Arts and Sciences, University of North Carolina School of Medicine and the NC State University College of Engineering.

More information can be found here: <https://unc.peopleadmin.com/postings/266265>

Call for Newsletter Content

The ASEE BED bi-monthly newsletter is a place to share general announcements, open positions, BME education resources, Tidbits, etc. To send an announcement via the BED newsletter, 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 Sarah Rooney at srooney@udel.edu with **[BED Announcement]** in the subject line to facilitate email sorting. Announcements will be sent out approximately on the 1st and 15th of each month. **Each set of announcements will be included in the newsletter 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>). To submit a Tidbit, use the same process described above AND label it as a Tidbit and include your name and title/affiliation.

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Advising sign-up [link](#)