



American Society for
Engineering Education
Design in Engineering
Education Division

February 2021
All the News
InDEED
NEWSLETTER

ABOUT DEED

WHO WE ARE:

The purpose of DEED is to share knowledge, learning and best-practice experience that improves the quality of engineering design education skills within our community.

2021 ASEE Conference

~~June 27—30,~~ July 26—29, 2021, Long Beach, California

DEED Paper Submissions:

The Design in Engineering Education Division (DEED) abstract submissions are currently being reviewed for papers to be presented at the 2021 ASEE Annual Conference to be held July 26 - 29, 2021, in Long Beach, California.

- Draft Paper (for accepted abstracts) Due - ~~February 8,~~ March 8, 2021

The 2021 Conference Authors Kit is available on this link:

<https://www.asee.org/documents/conferences/annual/2021/2021-Authors-Kit.pdf>

If you have any questions, please contact DEED Program Chair and Chair-Elect: Beshoy Morkos, bmorkos@uga.edu or Corey Schimpf, schimpf2@buffalo.edu.

Commission on Diversity, Equity and Inclusion:

ASEE's Commission on Diversity, Equity, and Inclusion (CDEI) is excited to share information with you regarding our awards for the 2021 Conference.

We have two awards this year:

[ASEE Constituent Diversity, Equity, and Inclusion Award](#)

[Best Diversity, Equity, and Inclusion Paper Award](#)

Call for Participation

Designing Student-Centered Learning Experiences

2021 Summer Institute at Olin College (<http://www.olin.edu/summer-institute>)

- Week-long interactive workshop for faculty teams engaged in a curricular change effort at their own institution
- Through participatory workshops, immersive design exercises, and presentations from experts, teams of faculty learn about, experience, and practice effective, engaging teaching approaches for new and meaningful STEM curricula
- **June 7-11, 2021** online via Zoom
- Questions? Contact summerinstitute@olin.edu

Do you have a job posting, research request or other announcement you would like the DEED community to be informed of? Please email rhoads.2@osu.edu with the information to be included in the next InDEED newsletter.

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Post Doctoral Position Announcement at Georgia Institute of Technology

The Biomedical Engineering Department at Georgia Institute of Technology is recruiting for an engineering education focused Postdoctoral Fellow position in support of our Revolutionizing Engineering Departments (RED) Grant. The formal job posting and application portal can be found on our jobs site ([link](#), Job ID: 223036. Title: Postdoctoral Fellow). Please feel free to forward or distribute this position to anyone you know who may be interested.

Our department's RED grant is focused on inclusion and diversity as a path to improving undergraduate engineering education. The focus on inclusion is in two parts; (1) Developing students who are more inclusive when they work on engineering teams and (2) Approaching engineering problems in a way that takes an inclusive approach to users and the populations affected by engineering work. A perspective on our approach to inclusivity in engineering education can be found in a recent JEE editorial. This position will be centered on working on the second focus described above, a integrating a more inclusive approach to engineering design and technical skills into our undergraduate curriculum. The Postdoctoral Fellow will contribute to a curricular change and research program that seeks to answer the following research questions: 1) how can inclusion promoting interventions be sustainably integrated into the curriculum, 2) how do the curriculum modifications impact students' interpersonal skills and understanding of inclusive engineering design practices, and 3) what system and structural changes are effective in supporting organizational change?

We are seeking a candidate who has a strong record of designing and executing qualitative research studies. Qualitative interviewing, participant observation, state-of-the-art analytic techniques and code book development are the essential tools we seek. The Fellow will also have the opportunity to recruit and mentor a team of undergraduate research assistants.

Required Qualifications: PhD in psychology, organizational behavior, organizational justice, organizational change, sociology, engineering education, learning science, ethnography, or a related field.

Preferred Qualifications: The ideal candidate should have demonstrated ability to perform both quantitative and qualitative analysis, although our primary need is qualitative.

We expect to start reviewing applications immediately and fill the position as soon as possible. Work will likely begin remotely but is expected to transition to Georgia Institute of Technology's campus in Atlanta GA.

Application procedures:

Applicants must apply via the Georgia Institute of Technology online portal to this job ([link](#), Job ID: 223036. Title: Postdoctoral Fellow)

Applicant will submit:

- A one-page cover letter containing:
- A statement of interest of no more than three double-spaced pages describing in further detail your interest and background as it relates to this position
- A short writing sample pertinent to the application
- An up-to-date curriculum vitae
- A list of three references; no reference letters are needed at this time, but please inform your references that they will be contacted if you are a finalist.

If you have any questions please do not hesitate to reach out to me or to Dr. Sara Schley (sara.schley@bme.gatech.edu).

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Clinical Faculty of Practice at The Ohio State University

The Department of Engineering Education (EED) in the College of Engineering (CoE) at The Ohio State University invites applications for a faculty position at the rank of Associate Professor of Practice or Professor of Practice to start July 1, 2021 (date is flexible). We seek applicants with an industrial background to teach in and manage an existing honors program involving both engineering and business students in the area of product commercialization. The faculty member hired for this position is expected to advance students' interpersonal interactions (especially in team environments), critical thinking, and ability to create value based upon user needs in addition to traditional knowledge and skills in business and engineering. The faculty member hired is expected to teach engineering honors courses in the Integrated Business and Engineering (IBE) program and others, as may be required to facilitate entrepreneurial-minded initiatives within EED and the college, and lead development of the IBE program in the role of Director.

Integrated Business and Engineering Honors Program The Integrated Business and Engineering Program (IBE) at The Ohio State University (<https://engineering.osu.edu/academics/integrated-business-engineering-honors-program>) is a four-year program that supplements standard curricula in the disciplines of business and engineering with a sequence of dedicated IBE courses and seminars focused on experiential, entrepreneurial and multidisciplinary learning with core courses leading to a minor in the opposite discipline. The program was formed in spring 2014 and enrolls 30 new students a year for a total of 120 undergraduates across all four cohorts.

Required Qualifications:

- A master's degree or Ph.D. in engineering, engineering education, or design, or another field of study relevant to the discipline of engineering education
- Evidence of teaching or mentoring teams of students or employees in engineering design and business contexts
- Demonstrated excellence in oral, written, and graphical communication

Desired Qualifications:

- Experience interacting with C-level industry people and potential donors or investors
- Proven skill and experience in product strategy, manufacturing, and development
- Evidence of successful collaboration with others
- Demonstrated experience promoting an organizational climate that values diversity and inclusion
- Product commercialization knowledge or experience
- User-centered value creation leading to product design
- Five or more years of industry experience

How to Apply:

Interested applicants should apply via <https://osu.wd1.myworkdayjobs.com/OSUCareers>.

Please include a cover letter, curriculum vita (or resume), statement on product development, statement on teaching, and names and contact information of five references. We will begin reviewing applications on March 1, 2021 and continue until the position is filled. If you have questions about this position, contact Lisa Abrams (abrams.34@osu.edu).

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Asst./Assoc./Full Professor of Practice at Oregon State University

The College of Engineering invites applications for a full-time (1.0 FTE), 12-month, fixed-term, Assistant/Associate/Full Professor of Practice (Director of Multidisciplinary Capstone Programs) position. The primary purpose of this position is to enhance professional preparation of students in the College of Engineering (CoE) through a multidisciplinary capstone program (MCP). Major duties include developing and creating relationships with industry and university partners that support multidisciplinary capstone projects including those that involve student competitions. The successful candidate will promote critical thinking, advance student's knowledge and skills, and serve as an industry liaison. They will create opportunities for student success within the highly competitive student capstone project teams such as Baja SAE, Formula SAE, Rocketry, and other future projects evolving under their leadership. This person will build upon the strong foundation and success of existing programs to further develop and deliver the multidisciplinary capstone experience with an emphasis on engineering practices that impart essential skills and practical knowledge in the engineering capstone curriculum. For the full job description, please log in to: <https://jobs.oregonstate.edu/postings/97785> OSU commits to inclusive excellence by advancing equity and diversity in all that we do. We are an Affirmative Action/Equal Opportunity employer, and particularly encourage applications from members of historically underrepresented racial/ethnic groups, women, individuals with disabilities, veterans, LGBTQ community members, and others who demonstrate the ability to help us achieve our vision of a diverse and inclusive community. If you have questions about this position, contact John Parmigiani (John.Parmigiani@oregonstate.edu)

We want YOUR Perspective! Yes, you. *Design Vision Competition: Design Disruptions* Sponsored by ASEE Design in Engineering Education Division Provocative. Visionary. Aspirational. Innovative.

You love to design. You have taken or taught design classes. As the ultimate stakeholder of design education and/or practice, we look to you to imagine ...

What is a potential emerging disruptive change that impacts engineering design? ... Describe your vision, thoughts, solutions, ideas, or perspectives in any medium: slideshow, essay, video, storyboard, or other ...!

Find the full Description Here <http://deed.asee.org/index.php/conference-info/> You will soon see that any related vision, observation, set of ideas are encouraged!

Entries are accepted in 4 categories: Pre-college, Undergraduate Student, Graduate Student, Practitioner Up to 4 Winners will each receive a \$500 fellowship grant to attend ASEE 2021 ASEE membership NOT required.

Submissions are due March 31, 2021 Winners and other selected presenters will be informed no later than May 1, 2021

Feel free to be creative!! We are looking forward to hearing from you!

Also, you can register and start now, but finish your vision later.

Again, link here to the full invitation <http://deed.asee.org/index.php/conference-info/>

Please feel welcome to contact Kris Jaeger-Helton at bkjaeger@coe.neu.edu with any questions.

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