

Job Title: Assistant/Associate Professor - Purdue Engineering Musculoskeletal Engineering

Job Summary

The Weldon School of Biomedical Engineering at Purdue University invites applications for a tenure-track position at the Assistant or Associate Professor level. The successful candidate will join the newly established **Purdue Center for Musculoskeletal Engineering (PCME)** located in **Indianapolis**, Indiana. This position represents an exciting opportunity to contribute to a new initiative integrating **engineering, medicine, and translational research** at the heart of Indiana's life sciences ecosystem.

Successful candidates must hold a Ph.D. in Biomedical Engineering, Mechanical Engineering, or Materials Science and Engineering, or a closely related discipline, by the employment date. Candidates should have expertise in one or more areas related to **musculoskeletal health**, including (but not limited to) **biomechanics of bone, cartilage, tendon, ligament, or connective tissue, computational biomechanics, regenerative medicine, orthopedic devices, or mechanobiology**. Early-career applicants should show evidence of initiating independent research, while mid-career applicants should demonstrate a sustained record of independent research within academic or industrial organizations, and contributions to education and/or mentoring. Individuals working at the interface of engineering and medicine—particularly those who can bridge computational modeling, imaging, material science, and experimental or clinical applications—are especially encouraged to apply.

The successful candidate is expected to establish an independent, externally funded research program, mentor graduate and undergraduate students, teach courses at both levels, and contribute to service at the School, College, and University levels. Collaboration with clinical partners at the **Indiana University School of Medicine** and industry partners in the **OneHealth Innovation District** is highly encouraged and supported.

Schools and College

The **Weldon School of Biomedical Engineering** is home to over 700 students, 45 primary faculty, 100 affiliated faculty, 1,500 alumni, and more than 100,000 ft² of laboratory space. Annual research expenditures exceed \$20 million, with sustained support from NIH, NSF, DoD, and industry sponsors. The School has a strong record of **translation and innovation**, with over 100 U.S. patents, \$30 million in licensing royalties, and more than 25 startup companies that have impacted millions of patients worldwide.

As part of **Purdue Engineering**, one of the nation's largest and top-ranked colleges of engineering, the Weldon School benefits from the University's major investments in initiatives such as **OneHealth, Purdue Computes, the Institute for Physical AI, the Daniels School of Business** and **Purdue University in Indianapolis**—a fully integrated extension of the West Lafayette flagship campus. These initiatives provide unprecedented opportunities for **translational biomedical research** through proximity to hospitals, medical research facilities, and Indiana's vibrant biotechnology and medical device industries. Purdue Engineering is one of the largest and top-ranked engineering colleges in the nation and renowned for top-notch faculty, students, unique research facilities, and a culture of collegiality and persistent pursuit of pre-eminence. According to the latest US News and World Report's disciplinary undergraduate program rankings, Purdue Engineering has 4 disciplines ranked in the top 4 in the country and 9 in the top 10. Purdue Engineering as a whole is ranked 2nd for online graduate engineering programs, 5th for graduate programs. For three years running, Purdue is ranked by the USPTO as one of the top five university campuses in the US in terms of annual number of US patents issued, and 71% of those patents come from Purdue Engineering. The College [Vision for 2030](#) is guiding strategic growth in new directions, by investing in people, [exciting initiatives](#), and [facilities](#).

The **Purdue Center for Musculoskeletal Engineering** serves as a hub for interdisciplinary collaboration focused on improving bone, tendon, ligament, and cartilage health. The Center's strategic partnerships with **IU School of Medicine, Eli Lilly and Company, Zimmer Biomet, and BioCrossroads** advance the state's leadership in musculoskeletal health innovation.

Application Process

To apply, please submit an application to this site https://careers.purdue.edu/job/AssistantAssociate-Professor-Purdue-Engineering-Musculoskeletal-Engineering/39471-en_US/ including (1) cover letter, (2) a complete curriculum vitae, (3) a research plan of up to 3 pages, (4) a teaching plan of up to 2 pages, and (5) names and contact information for at least four references. For questions regarding applications contact Engineering Academic Affairs, Purdue Engineering, at coeacademicaffairs@purdue.edu. Review of applications will begin on Dec 11, 2025, and will continue until the position is filled. A background check is required for employment in this position.

Purdue University and Purdue Engineering have a [Concierge Program](#) that provides dual career assistance and relocation services.

Purdue University is an equal opportunity/equal access university.