

Postdoctoral Research Position
Purdue University
Weldon School of Biomedical Engineering
Faculty Advisor: Deva Chan

We are looking for a highly motivated postdoctoral research associate to join our growing team at the Weldon School of Biomedical Engineering. Research projects will be focused on the gut-joint axis. Specific research directions include the role of host-microbe interactions and microbe metabolites on modulating musculoskeletal injury risk and post-traumatic osteoarthritis progression, primarily using mouse models. The successful candidate will also be responsible for preparing manuscripts for publication, traveling to and presenting research results at scientific meetings, and working with Dr. Chan to manage research activities in the lab and train students. Postdocs are also expected to apply for internal (e.g., [Gilbreth](#)) and external support and to develop additional independent projects in orthopedics, matrix biology, biomedical imaging, and/or mechanobiology as part of their training.

Qualifications: The ideal candidate will be able to demonstrate...

- A Ph.D. or equivalent in Biomedical Engineering, Biomechanics, Biology, or closely related field
- Experience working ethically with preclinical animal models
- Expertise in biomechanics or mechanobiology, cellular and molecular biology, and statistical analysis
- Familiarity with large biological data sets and various imaging modalities
- Ability to independently design, conduct, and document experiments
- Critical thinking, curiosity, and creativity in multidisciplinary research
- Effective project and time management, mentorship, leadership, and interpersonal skills
- Strong oral and written communication

About the Chan MRI Lab and Purdue University: The Chan Musculoskeletal Research and Innovation (MRI) Lab (bit.ly/Purdue_ChanLab) is located in the Martin Jischke Hall of Biomedical Engineering at Purdue University in West Lafayette, Indiana. We are steps away from the still-growing Discovery Park, which includes Bindley Biosciences (which houses the BME's own 7T Preclinical MRI system), Birck, etc., and just minutes from the Purdue University College of Veterinary Medicine, the Purdue MRI Facility (GE and Siemens 3T systems), and numerous on-campus core facilities and resources. More information about the Weldon School of Biomedical Engineering can be found [on our website](#).

Sponsorship and Period of Performance: The open postdoctoral research position will be supported by startup funds, fellowships, and/or multi-year federal sponsor funds, with an immediate start date. Appointment is on a yearly basis, assuming satisfactory performance and timely completion of sponsor-mandated Milestones and Deliverables.

Application Process and Deadlines: Interested applicants are invited to send a single PDF file containing a cover letter, a current curriculum vitae including DOIs for all first-author manuscripts, and names and contact information for three references (including affiliation, phone number, and email) to Dr. Deva Chan (devachan@purdue.edu). The cover letter should include a preferred start date and *concisely* describe how the candidate's prior experiences, research interests, and career goals align with this position. Review of applications will begin immediately, and the position will remain open until filled.

EEO/AA Policy: Purdue University is an EOE/AA employer. All qualified individuals, including minorities, women, individuals with disabilities, and veterans are encouraged to apply.

Contact: Dr. Deva Chan, Assistant Professor of Biomedical Engineering
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