

Postdoctoral Researcher
Purdue University, West Lafayette, Indiana
Weldon School of Biomedical Engineering

We are looking for a highly motivated postdoctoral researcher to join our team at the Weldon School of Biomedical Engineering to work at the intersection of hyaluronan science and biomechanics/mechanobiology. Research directions include the role of the hyaluronan “mechanics-matrix” feedback loop at multiple length scales, how to manipulate hyaluronan metabolism for therapeutic applications, and how systemic physical activity like exercise impacts local repair/regenerative capacity.

Qualifications: Applicants must be able to demonstrate...

- A Ph.D. or equivalent in Biomedical Engineering, Biology, or closely related field
- Primary expertise in at least one of the disciplines or approaches required in this work:
 - Animal models of musculoskeletal, nutritional, or systemic deficits and associated assays
 - Mechanobiology, extracellular matrix biology, or inflammation
 - Atomic force microscopy or related nano- to microscale experimental biomechanics
- Comfort with and commitment to working ethically with preclinical animal models
- Ability to design, conduct, and document experiments independently and through collaboration
- Effective project and time management, mentorship, leadership, and interpersonal skills
- Strong oral and written communication

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 and mentor junior researchers. They must have strong project management, communication, and interpersonal skills, as the successful candidate would be required to interact with researchers of myriad technical and personal backgrounds. Postdocs are also expected to apply for internal (e.g., [Gilbreth](#)) and external support (i.e., fellowships, grants) and to develop independent projects in soft tissue biomechanics, matrix biology, and/or mechanobiology as part of their training.

Applicants who can start within 3 months of this posting are strongly preferred and availability within 6 months of this posting is required. Candidates who already have authorization to work in the United States and can meet this timeline will be prioritized. This position is supported by sponsored funds that are renewable up to 4 years upon sufficient research progress. Contractual appointment is on a yearly basis, with renewal dependent on satisfactory performance and timely completion of research milestones and sponsor-contracted 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). In the cover letter, *concisely* describe how *directly relevant* prior experiences, research interests, and career goals align with this position and include a preferred start date (and expected graduation date if a Ph.D. has not yet been conferred). Review of applications will begin immediately.

About the Chan MRI Lab and Purdue University: The Chan MRI Lab (bit.ly/Purdue_ChanLab) is housed in the Martin Jischke Hall of Biomedical Engineering at Purdue University in West Lafayette, Indiana. More information about the Weldon School of Biomedical Engineering can be found [on our website](#).

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
Associate Professor of Biomedical Engineering and Mechanical Engineering (by Courtesy)
chand@purdue.edu



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