

Postdoctoral Fellowship available at Indiana University
School of Dentistry
Indiana University

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Posted Nov. 27, 2024, set to expire Mar. 29, 2025

Job Title	Postdoctoral Fellowship available at Indiana University School of Dentistry
Department	Department of Orthodontics and Oral Facial Genetics https://dentistry.iu.edu/index.html
Institution	Indiana University Indianapolis, Indiana
Date Posted	Nov. 27, 2024
Application Deadline	Open until filled
Position Start Date	Mar. 1, 2025
Job Categories	Post-Doc
Academic Field(s)	Biological/Materials Sciences
Job Website	https://indiana.peopleadmin.com/postings/26738
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Job Description	

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A postdoctoral position is available starting on March 1, 2025, or earlier in Dr. Rishma Shah's lab at Indiana University School of Dentistry. Dr. Shah seeks to investigate different approaches to engineer craniofacial skeletal muscle for implantation into sites of soft tissue defect. This project will involve (1) purification and expansion of porcine muscle stem cells; (2) use of 3D-printed scaffolds, growth factors, and mechanical loading to promote muscle tissue regeneration; and, (3) in vivo testing of engineered muscle tissue. A candidate is expected to understand the context and implications of the proposed research necessary to conduct research in the scientific disciplines of biomaterials and tissue engineering.

A candidate must independently plan, develop, conduct and evaluate scientific research in a laboratory. The range of duties includes, but is not limited to: project planning, experimental design, developing methodology, conducting procedures, modifying procedures as needed, data collection and analysis, laboratory communication and instruction. A candidate will be expected to demonstrate and model effective mental concentration, visual attention and manipulative skills. Work will include the training and supervision of staff, students and others in performing specific techniques or phases of experiments. It is expected that a candidate will independently direct at least two collaborative projects with others in and outside the Indiana University School of Dentistry to plan, design, implement, and modify experimental plans and procedures. A candidate is also expected to be highly motivated, organized, reliable and possesses excellent communication skills. Training in specific methods and techniques will be offered.

Academic/degree requirements: PhD in a biological science.

Experience requirements: Minimum of three years' experience in a basic science laboratory with a working knowledge of:

- primary murine, porcine, and human cell culture
- animal models of disease
- handling of infectious materials for cell culture, animal models and/or human disease

Interested candidates should review the application requirements and submit supporting documents at <https://indiana.peopleadmin.com/postings/26738>.

Salary will be commensurate with the candidate's experience and qualifications. Review of applicants will begin immediately and will continue until the position is filled.

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EEO/AA Policy

As the state's premier urban research institution, Indiana University is committed to having a welcoming campus community that reflects and enacts the values of diversity, equity and inclusion that inform academic excellence. We seek candidates who will not only enhance representation but whose research, teaching, and community engagement efforts contribute to heterogenous, equitable, and inclusive learning and working environments for our students, staff, and faculty.

Contact Information

Please reference Academickeys in your cover letter when applying for or inquiring about this job announcement.

Contact Dr. Rishma Shah
Department of Orthodontics and Oral Facial Genetics
Indiana University School of Dentistry
Indianapolis, IN

Contact E-mail rsh1@iu.edu