

The emergence of structural health monitoring as driven by neuroimaging, computational modeling of neural behavior, and targeted delivery of therapeutic or protective agents will improve the prevention, detection and treatment of neurotrauma, leading to a paradigm shift in the standard-of-care for individuals exposed to repetitive or episodic head collisions.

Description: The Engineering Healthier Brains Initiative is a priority area for hiring within the Purdue University College of Engineering. We are seeking a highly-qualified, creative individual with substantial experience in technologies related to neurological health and behavior. Areas of emphasis include magnetic resonance imaging (MRI) of the brain (including diffusion weighted imaging, perfusion imaging, fluid biomarker quantification and spectroscopy), computational systems modeling, and development and targeting of biomolecules/biomarkers for use as neuroprotective agents. Applicants with expertise in related areas enabling improved approaches to neural health are encouraged to apply.

New faculty are sought to build strong research and educational programs that deliver this paradigm shift by working in collaboration with the interdisciplinary Purdue Neurotrauma Group and the multi-institutional Concussion Neuroimaging Consortium. The goal is academic preeminence in the engineering of neural health, combined with extraordinary clinical and entrepreneurial impact.

Qualifications: We are seeking a highly qualified and creative individual at all levels who share our vision of protecting, restoring and enhancing neural health. New faculty member will be expected to develop strong, externally-funded research programs, develop and teach innovative curricula, and help advance the frontiers of knowledge within and outside of collaborations with other current and future members of this preeminent team.

Successful candidates must hold a Ph.D. degree in Engineering Science or a related discipline and demonstrate excellent potential to build an independent research program at the forefront of their field, as well as potential to educate and mentor students. Successful candidates will conduct original research, will advise graduate students, will teach undergraduate and graduate level courses, and will perform service both at the School and University levels. Candidates with experience working with diverse groups of students, faculty, and staff and the ability to contribute to an inclusive climate are particularly encouraged to apply.

The College of Engineering is committed to advancing diversity in all areas of faculty effort, including scholarship, instruction, and engagement. Candidates should address at least one of these areas in their cover letter; indicating their past experiences, current interests or activities, and/or future goals to promote a climate that values diversity and inclusion.

Submit applications online at <https://engineering.purdue.edu/Engr/AboutUS/Employment/Applications>, including curriculum vitae, teaching and research plans, and names of five references. For information/questions regarding applications contact the Office of Academic Affairs, College of Engineering, at coacademicaffairs@purdue.edu. Review of applications will begin on January 1, 2018, and will continue until positions are filled. A background check will be required for employment in this position.

Purdue's main campus is located in West Lafayette, Indiana, a welcoming and diverse community with a wide variety of cultural activities and events, industries, and excellent schools. Purdue and the College of Engineering have a [Concierge Program](#) to assist new faculty facilitate their relocation.

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