PURDUE
UNIVERSITY

COLLEGE OF ENGINEERING
FACULTY POSITION IN DATA SCIENCE FOR HEALTHCARE-RELATED DEVICES AND MONITORING

Healthcare-related devices and IoT sensors are changing the way we support population health and wellness by providing remote and real-time information that can be analyzed and acted upon. This information can help to improve access, empower individuals in their decisions and self-management, provide notifications to providers, predict health events, and improve diagnostic accuracy. Key challenges include security and compliance, integration and interoperability, fusion of heterogeneous data, and development of appropriate data science methodologies that support evidence-based care.

We are seeking a highly qualified individual with expertise in data science applied to healthcare, and in particular, to healthcare-related devices and monitoring. Areas of emphasis include deep learning, explainable artificial intelligence, causal inference, predictive analytics, transportability of causal and statistical relationships, connected care, IoT analytics, and remote monitoring/point of care analytics. New faculty are sought to build strong research programs working in collaboration with Purdue's Regenstrief Center for Healthcare Engineering. The goal is preeminence in healthcare engineering research combined with extraordinary impact on healthcare delivery and community engagement for improving outcomes that are proactive, patient-centered, and wellness-focused.

Candidates must hold a Ph.D. in biomedical engineering, computer engineering, computer science, electrical engineering, industrial engineering, mechanical engineering, statistics, or a related field. The focus is on the assistant professor level, but outstanding individuals at all levels of experience will be considered. The successful candidate will conduct original research, advise graduate students, teach undergraduate and graduate level courses, and 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.

Purdue University's 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 a letter of interest, curriculum vitae, academic transcripts, statements of approach, teaching and research plans, and names of five references. For information/questions regarding applications, contact the Office of Academic Affairs, College of Engineering, at coeacademicaffairs@purdue.edu. Questions regarding the position may be addressed to the chair of the search committee, Professor Paul Griffin paulgriffin@purdue.edu. Review of applications will begin on September 1, 2018 and will continue until the position is 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, events, and industries. Purdue and the College of Engineering have a Concierge Program to assist new faculty and facilitate their relocation.

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