



## 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.

**Description:** We are seeking a highly qualified individual with expertise in data science applied to healthcare, and in particular, 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.

**Diversity:** Purdue University is committed to the development of a multicultural environment. We value the input of multiple viewpoints and perspectives across the university; our goal is to create an academic community that is rich with cultural, social, and intellectual diversity.

**Qualifications:** 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. New faculty members will be expected to develop strong, externally-funded research programs, develop and teach innovative curricula, and help advance the frontiers of knowledge with current and future faculty affiliated with the Regenstrief Center for Healthcare Engineering.

**Applications** should include a letter of interest, CV, academic transcripts, statements of approach, vision for research and teaching, and names and contact information for five references. Please go to <https://engineering.purdue.edu/Engt/InfoFor/Employment> to apply. If you cannot submit your application at this website, please contact Ms. Lisa Stacey at [staceyl@purdue.edu](mailto:staceyl@purdue.edu). Questions regarding the position may be addressed to the chair of the search committee, Professor Paul Griffin - [paulgriffin@purdue.edu](mailto:paulgriffin@purdue.edu). A background check will be required for employment in this position.

Review of applications begins October 1, 2018, and continues until the positions are filled.

*Purdue University is an equal opportunity /equal access /affirmative action employer fully committed to achieving a diverse workforce.*