Faculty Positions in Networked Wireless Nanoelectronic Implants

Implantable networks of wireless nanoelectronic devices will enable multi-pathology treatment through physically distributed networks of nanoscale wireless sensors and actuators, leading to a paradigm shift in medical treatment. This is one of four priority areas for hiring selected by Purdue University’s College of Engineering for the coming year. These areas, chosen from among 32 that competed this fall, were selected because of their potential for dramatic impact and international preeminence.

**Description:** We are seeking three highly qualified, creative individuals with substantial experience in technologies to enable implantable networks of wireless nanoelectronics devices. Areas of emphasis include biosensing, packaging, or energy harvesting, but applicants in other areas enabling implantable medical devices are encouraged to apply. New faculty are sought to build strong research programs that deliver this paradigm shift by working in collaboration with Purdue's Center for Implantable Devices, the National Science Foundation / Semiconductor Research Corporation NEEDS (Nano-Engineered Electronic Device Simulation) initiative led by Purdue, and the largest neurosurgical group in the United States: Goodman Campbell Brain and Spine in Indianapolis. The goal is preeminence in medical device research combined with extraordinary clinical impact.

**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:** We are seeking highly qualified and creative individuals who share our vision of realizing implantable networks of wireless nanoelectronic devices. Candidates must hold a PhD in Engineering Science or a related field. The focus is at the associate professor level or above, with demonstrated research and teaching experience, but outstanding individuals at all levels with academic or industrial 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 within and outside of collaborations with other current and future members of this preeminent team.

**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/Engr/InfoFor/Employment](https://engineering.purdue.edu/Engr/InfoFor/Employment) to apply. If you cannot submit your application at this website, please contact Ms. Marion Ragland at ragland@purdue.edu. Questions regarding the position may be addressed to the chair of the search committee Professor Pedro Irazoqui – pip@purdue.edu. A background check will be required for employment in this position.

Review of applications begins December 12, 2013, 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.*