Purdue University College of Engineering and College of Science Faculty Openings in Quantum Photonics

Purdue University’s College of Engineering and College of Science have identified quantum photonics as a major thrust for cross-disciplinary education and research, including theory, modeling and experiment, and are accepting applications for a tenured or tenure track faculty position in this area at the Assistant, Associate, and Full Professor level. Recently, conceptual and technical advances have pointed to the beginning of a new era for the physical, chemical, and information sciences and related technologies – the era of Quantum Science and Engineering. Quantum photonics is a center stage in this new emerging field, combining photonic and quantum technologies and cutting across the areas of computer science, theoretical and experimental physics, chemistry, material science and device engineering. Purdue University has embarked on a new quantum photonics initiative to exploit optical and quantum technologies that are expected to have transformative impact on our society, by enabling quantum computation and communication, new approaches to metrology and quantum sensing, as well as novel materials that are designed and engineered at the quantum level, quantum metamaterials, with unique properties unattainable in natural materials. This initiative will build on the existing strengths and leverage the nanotechnology, quantum science and engineering, and photonics capabilities of both Purdue Colleges and Purdue’s Discovery and Research Parks. Please visit https://engineering.purdue.edu/~shalaev/quant_phot/ for more information about this initiative.

Candidates must hold a Ph.D. degree in Engineering, Science or a related field. They should have a distinguished academic record, exceptional potential for world-class research, and a commitment to teach in both undergraduate and graduate programs. Specific research fields of interest include, but are not limited to quantum optics, nanophotonics, quantum plasmonics and metamaterials, graphene and 2D materials, diamond photonics, coherent optics, optical metrology, nanomechanical oscillators, quantum communications, and quantum sensing. The 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 primary faculty appointment will be in a school of the College of Engineering or/and a department of the College of Science, and will depend on the candidate’s qualifications.

Submit your application online at: http://engineering.purdue.edu/Engr/InfoFor/Employment. The application should include a cover letter, a complete and detailed vitae, and statements of research and teaching interests. Also, please include names, addresses, telephone numbers, and e-mail addresses for three or more references. For information/questions regarding applications contact the Office of Academic Affairs, College of Engineering, at coecademicaffairs@purdue.edu. Screening of applications will begin February 22, 2016 and will continue until the 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 and their partners regarding dual career needs 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