PURDUE
U N I V E R S I T Y

Post-doc positions: high-assurance cryptography for secure distributed applications

The programming languages and security groups at Purdue University are seeking applications for multiple post-doc positions in the intersection of programming languages, formal methods, performance optimization, compilers, applied cryptography, and secure distributed systems.
The overall goal of the project is to develop a broad spectrum of techniques to support secure distributed applications that use advanced cryptographic techniques, and in particular, to develop a comprehensive set of design tools, programming languages, and verification tools to enable advances in the security and performance of such systems.

Successful candidates will work closely with a team of faculty in programming languages, formal methods, and systems, as well as cryptology and security. There will be considerable freedom in actively shaping the research agenda and taking leadership roles within the project team, which will consist of up to nine graduate students. The appointment is an annual contract, renewable for the duration of the project (up to 5 years).

Applications are expected by April 30, 2019 to be given full consideration. However, applications will be accepted until all positions are filled. Applications may be submitted by email to purduehaccle@gmail.com

The application must include a curriculum vitae, a short research statement, and names of two contacts that can provide references about the applicant and their work. Successful applicants will have a track record of research excellence, as demonstrated through publication records and references. While experience in both PL and security is a plus, strong candidates with experience in just one area will still be considered.

Purdue University is a world leader in programming languages, security, high-performance computing, and cryptography currently ranked 3rd in the US and 4th world-wide for this combination of areas (according to csrankings.com: http://csrankings.org/#/fromyear/2014/toyear/2019/index?sec&hpc&plan&crypt). The Purdue campus is located in the lovely Midwestern college town of West Lafayette, conveniently situated in-between Chicago and Indianapolis. Salary and benefits are competitive.

Questions may be directed to purduehaccle@gmail.com

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