



TECHNISCHE
UNIVERSITÄT
DARMSTADT



ENCRYPTO
CRYPTOGRAPHY AND
PRIVACY ENGINEERING



Link to
this document

The Cryptography and Privacy Engineering Group (ENCRYPTO) at the Department of Computer Science of the Technische Universität Darmstadt is offering a position for a

Doctoral Researcher (Research Assistant / PhD Student) in the ERC-funded project “Privacy-preserving Services on The Internet” (PSOTI)

for doing cutting-edge research in applied cryptography and in particular secure multi-party computation funded via an ERC Starting Grant. We are part of the profile area CYSEC at TU Darmstadt and develop techniques and tools for protecting privacy in applications. See <https://encrypto.de> for details.

Job Description

The fully funded position is for up to 4.5 years with starting date latest on August 1, 2020. In our project, we will build privacy-preserving services on the Internet. This includes protocols for privately outsourcing, searching and processing data among untrusted service providers using secure multi-party computation, and building a scalable secure multi-party computation framework. See <https://encrypto.de/PSOTI> for more information about the project. You will do research, build prototype implementations, and publish and present the results at top conferences and journals. We provide an open and international working environment for excellent research in a sociable team and give the opportunity for further qualification (doctoral/PhD degree). TU Darmstadt is ranked as a top university for IT security and cryptography in Europe and computer science in Germany. The position is based in the “City of Science” Darmstadt, which is very international and livable, and well-connected in the Rhine-Main area around Frankfurt.

Your Profile

- You have a completed Master’s degree (or equivalent) from a top university with excellent grades in IT security, computer science, applied mathematics, electrical engineering, or a similar field.
- Extensive knowledge in IT security/applied cryptography and excellent software development skills are required.
- Additional knowledge in cryptographic protocols (ideally secure multi-party computation) is a plus.
- You are self-motivated, reliable, creative, able to discuss/write/present scientific results in English, and able to conduct excellent research on challenging scientific problems with practical relevance.

How to Apply

Your application should be in form of a **single PDF document** that consists of a letter of motivation stating why you are interested and qualify for the position, your current curriculum vitae, certificates (M.Sc., B.Sc., high-school diploma) and detailed transcripts of records with grades, and at least two references who can provide a letter of recommendation. Please send your complete application with subject “PSOTI Application PhD Student: YOUR NAME” to Prof. Dr.-Ing. Thomas Schneider (schneider@encrypto.cs.tu-darmstadt.de). If you have further questions, please do not hesitate to contact him before. This job announcement with links is available at <https://encrypto.de/PSOTI-PHDSTUDENT>.

Start date: August 1, 2020 or earlier

Application deadline: June 1, 2020; later applications will be accepted until the position has been filled

TU Darmstadt intends to increase the number of female employees and encourages female candidates to apply. In case of equal qualifications applicants with a degree of disability of at least 50 or equal will be given preference. Wages and salaries are according to the collective agreements on salary scales, which apply to the TU Darmstadt (100% E13 TV-TU Darmstadt).