

We're Hiring



TECHNISCHE
UNIVERSITÄT
DARMSTADT

Doctoral Researcher (Research Assistant / PhD Student) in Cryptography and Privacy Engineering



The *Cryptography and Privacy Engineering Group* ([ENCRYPTO](https://www.encrypto.de)) at the [Department of Computer Science](https://www.cs.tu-darmstadt.de) of the [Technical University of Darmstadt](https://www.tu-darmstadt.de) offers a *full position as doctoral researcher in cryptography and privacy engineering* for the duration of up to 3 years with the possibility of extension.

What we do

Our mission is to demonstrate that privacy can be efficiently protected in real-world applications. For this, *we bring theory into practice* by using methods from applied cryptography and algorithm engineering for developing protocols, tools, and software prototypes to efficiently protect sensitive data in various applications.

Details: [encrypto.de/topics](https://www.encrypto.de/topics)

Why ENCRYPTO

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 *a top research university* for [IT security and cryptography in Europe](https://www.tu-darmstadt.de/research/it-security) and [computer science in Germany](https://www.tu-darmstadt.de/research/computer-science).

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. Initially, no knowledge of German is necessary, and TU Darmstadt offers a [Welcome Center](https://www.welcome-center.de) and corresponding language courses.

What this job is about

As a doctoral researcher at ENCRYPTO, you will conduct research, build prototype implementations, and publish and present the results at top conferences and journals. You will also be involved in our teaching activities and supervise thesis students as well as student assistants.

The full position is co-funded by the *ERC Starting Grant* "Privacy-preserving Services on the Internet" (PSOTI). In PSOTI, we will build privacy-preserving services on the Internet, which includes designing protocols for privately processing data among untrusted service providers using secure multi-party computation and implementing a scalable framework.

Details: [encrypto.de/PSOTI](https://www.encrypto.de/PSOTI)

Your profile

- Completed Master's degree (or equivalent) at a top university with excellent grades in IT security, computer science, applied mathematics, electrical engineering, or a similar field.
- Extensive knowledge in applied cryptography/IT security and excellent software development skills.
- Additional knowledge in cryptographic protocols (ideally secure multi-party computation) is a plus.
- You are self-motivated, reliable, creative, can work independently, and want to do excellent research on challenging scientific problems with practical relevance.
- As the working language of the ENCRYPTO Group is English, you must be able to discuss/write/present scientific results in English, whereas German is not required for this position.

Apply now!

Your application must consist of a **single PDF** including

- a letter of motivation (why are you interested and qualify for this position?),
- a current curriculum vitae,
- certificates (M.Sc., B.Sc., high-school diploma) with detailed transcripts of records and grades, and
- two letters of recommendation (or two references).

Please send your complete application to Prof. Dr.-Ing. Thomas Schneider (schneider@encrypto.cs.tu-darmstadt.de). If you have any further questions, please do not hesitate to contact him.

Start Date: as soon as possible

Application deadline: none

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 (100% E13 TV-TU Darmstadt).



Link to this document:
[encrypto.de/PHD-STUDENT](https://www.encrypto.de/PHD-STUDENT)



ENCRYPTO
CRYPTOGRAPHY AND
PRIVACY ENGINEERING



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