PhD Candidate for Security, Delft University of Technology, Netherlands.

Department/faculty: Faculty Electrical Engineering, Mathematics and Computer Science

Level: University Graduate

Working hours: 38-40 hours weekly

Contract: 4 years

Salary: 2266 - 2897 euros monthly (full-time basis)

Faculty Electrical Engineering, Mathematics and Computer Science

The Faculty of Electrical Engineering, Mathematics and Computer Science (EEMCS) is known worldwide for its high academic quality and the social relevance of its research programmes. The faculty's excellent facilities accentuate its international position in teaching and research. Within this interdisciplinary and international setting the faculty employs more than 1100 employees, including about 400 graduate students and about 2100 students. Together they work on a broad range of technical innovations in the fields of sustainable energy, telecommunications, microelectronics, embedded systems, computer and software engineering, interactive multimedia and applied mathematics.

Secure design and engineering is a central topic of research and education at Delft University of Technology. The Faculty of EEMCS focuses on computer (and data) science theory and engineering of cyber security in distributed systems and networks. Projects encompass network security, software engineering, privacy and security in peer-to-peer systems, privacy enhancing technology, and malware spreading, detection and modelling. Application domains include healthcare and intelligent energy supply (smart grids).

The Adyen culture

Our people are our greatest asset. Our unique company culture attracts the smartest people, who take initiative & ownership and can truly contribute to our fast growth. We believe that you are able to reach the utmost if we give you freedom, opportunities and responsibility to build Adyen. Our culture is very informal and direct. We believe in teamwork, and don't like egos and hierarchy. When taking a decision, we take them quickly but always involve others to further improve. We provide each other regular informal feedback and let everyone design their own growth path.

Job description

What you'll do

Develop new techniques for detecting emerging threats and attacks that are able to process a billion log events per day in real-time.

Learn state machines from large datasets of system and network traces

Identify anomalous situations and categorize them for follow-up evaluation by our analysts.

The project is a collaboration between the software engineering (SWERL TUDelft) and cybersecurity research groups (CYS TUDelft) of the Delft University of Technology, and industrial partner Adyen. You will spend approximately 3 days a week at Adyen and 2 days at the university.

Requirements
Who you are

You can combine the academic and industry perspective of security

You will deliver the expectations of both practice and research

You are fascinated by security

You understand that information security problems need people-based as much as technology-based solutions

You have a MSc degree in Computer Science or Artificial Intelligence, can build large programs in Java or Python, and have experience with machine learning techniques

You like to:

Develop your skillset and learn on the fly

Solve problems and think about structural solutions, basing this on actionable data

Collaborate intensively with colleagues in security and other subject matter domains

Work in a technically highly challenging role in a very dynamic environment

Handle the freedom and responsibility to make your own decisions in a team context

Conditions of employment

TU Delft offers a customisable compensation package, a discount for health insurance and sport memberships, and a monthly work costs contribution. Flexible work schedules can be arranged. An International Children's Centre offers childcare and an international primary school. Dual Career Services offers support to accompanying partners. Salary and benefits are in accordance with the Collective Labour Agreement for Dutch Universities.

As a PhD candidate you will be enrolled in the TU Delft Graduate School. TU Delft Graduate School provides an inspiring research environment; an excellent team of supervisors, academic staff and a mentor;

and a Doctoral Education Programme aimed at developing your transferable, discipline-related and research skills. Please visit tudelft.nl/phd for more information.

Information and application

If this role looks like your next challenge, apply by clicking the apply button or:

adyen.com/careers/vacancies/phd-program/position/1299652/phd-candidate-for-security

We can't wait to meet you!

Applications will be accepted until the position has been filled.