

NEC Laboratories Europe is the European research center of NEC Corporation, a world leader in the computer and communications markets with a large world-wide base of R&D Laboratories. Top researchers from more than 20 countries develop, pilot and bring to reality technologies through open innovation.

NEC Laboratories Europe has an immediate opening for a

## Internship/Master Thesis on IoT Security

[ref: 2018-09-75-SEC]

NEC Laboratories Europe is looking for a Research Intern to contribute to the exploration and analysis of security primitives for Internet of Things.

The Internet of Things (IoT) brings a huge variety of innovation opportunities by connecting physical and virtual objects with the cloud. This also opens up new attack surfaces and adversarial opportunities which need to be carefully studied. The project addresses the problem of analyzing, implementing and evaluating a number of security primitives for IoT devices and infrastructure.

We support individual creativity, strong teamwork as well as scientific publications. English is the working language in the Laboratories.

NEC Laboratories Europe is located in Heidelberg - one of Germany's most beautiful and idyllic towns. The area offers a number of exciting cultural, entertainment, and outdoor activities.

***If you are passionate about innovation, driven by challenges, and ready to bring your ideas from concepts to reality, we would like to hear from you.***

Please send your application via the following webpage:  
<https://www.neclab.eu/jobs> with reference to  
**[2018-09-75-SEC].**

Applicants are sought with experience and skills in these areas:

- Strong experience in IoT security, and distributed systems security.
- Excellent interpersonal and communication skills in English.
- Experience in software development including experience with programming languages, such as Python, Java, or C/C++.

Objectives/Goals – This research project is spread over a period of six months, from its start date. During the course of this thesis, the student is expected to complete the following milestones:

- Perform a survey of existing security technologies for IoT devices and infrastructure.
- Analyze and implement a selected number of technologies.
- Evaluate the performance of the devised technologies.
- Document all source code and findings in a final report.

The internship will be paid. Candidates who are seeking a MSc thesis in Security, Cryptography, Computer Science, or a closely related field, with a hands-on approach and proven skills in real-world problem solving are preferred.

**For questions, please contact:**

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