Job description

The industrial doctorate at Infineon: Pursue a doctoral degree at a university and gain professional experience simultaneously - an ideal start for your career. Advance your research with us and profit from our vast network of doctoral candidates and the expertise of a university. Mentorship is handled by both professors and dedicated Infineon employees.

**Security**

, e.g. provided by hardware-based trust anchors, is of utmost importance for the correct functioning of the Internet of Things and advancements like fog computing.

In your new role, you will:

- Explore latest IoT and fog computing technologies
- Explore privacy-enhancing technologies and their foundations and investigate methods for the efficient execution of such schemes on constrained devices
- Contribute to protocol design tasks at system level
- Implement components for a privacy-friendly IoT and edge computing system in C/C++
- Work in the international context of an European project with international partners

In this Doctoral thesis, you have the opportunity to work with Infineon’s renowned hardware security solutions to develop new privacy-friendly IoT and fog computing technologies. Among other topics, you will be working on new solutions for static and dynamic platform integrity attestation, on privacy-friendly authentication technologies as a prerequisite to privacy-friendly distributed data acquisition, and mechanisms for the secure orchestration of IoT edge devices, such as zero-config onboarding techniques based on latest cryptography. This will be supplemented by research in the context of hardware-security ICs.

Find examples of our hardware security solutions here:

**Trusted Platform Modules**

We welcome you to join our international team of experts and contribute to novel IoT and fog computing solutions.

**Start:** 01.02.2020 (or later)
**Full-time employment:** 38.5 hrs/week
**Duration:** 3 years

Profile

You are best equipped for this task if you have:

- A master degree in the area of computer science or equivalent
- Programming skills in Python, C/C++
- Knowledge in cryptography at graduate level
- Basic know-how of secure programming

At a glance

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<th>Graz</th>
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<tbody>
<tr>
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<tr>
<td>Start date:</td>
<td>Feb 01, 2020</td>
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**Job ID:** 40167

[www.infineon.com/jobs](http://www.infineon.com/jobs)

Contact

Mag.(FH) Wolfgang Simoner
Talent Attraction Manager
• Optional: Experience with **programming for embedded systems**
• **Fluent English** is mandatory with German as a plus

This position is subject to the collective agreement for workers and employees in the electrical and electronics industry. The salary for this position is EUR 2,760,00 gross p. m. (full-time basis).

**Please attach** the following documents to your application:

• Motivation letter
• Your CV
• Copy of your Master degree certificate if already available, otherwise a copy of your latest study transcript