



Thesis: Artificial Intelligence and Machine Learning (f/m/div)*

Job description

Did you already gain first experiences in Artificial Intelligence (AI), Machine Learning (ML) or related fields and want to deepen this knowledge? This position gives you the opportunity to be part of the quantum computer team at Infineon. Since a quantum computer requires a cryogenic environment, good models are needed in order to integrate control electronics inside the cryogenic environment. In this position, you will have the chance to develop your own ML algorithm to generate models for our devices at cryogenic temperatures. Curious? Do not hesitate and apply now!

In your new role you will:

- **Collect measurement data** at both room and cryogenic temperatures
- **Develop a ML algorithm** to generate device models
- Get familiar with **IC-CAP modeling tool**
- **Build a sandbox model** for high voltage devices
- **Compare developed models and evaluate** their performance

Profile

You are best equipped for this task if you:

- Are studying **Electrical Engineering, Electronics Engineering, Physics, Computer Science, Software Engineering** or a related subject
- Have an **excellent knowledge of ML and AI**
- Have a **good background** on **CMOS technology** and **semiconductor physics**
- Already **experienced electronics laboratory and its equipment**, i.e. SMUs, Oscilloscopes, etc.
- Have highly motivated to **learn new topics**
- Are a **team player** and show **good communication skills**
- Speak **English fluently**, while German is a big plus

Please attach the following documents to your application:

- CV in English
- Certificate of enrollment at university
- Latest grades transcript
- High school report

At a glance

Location: **Munich (Germany)**
Job ID: **357313**
Start date: **Sep 01, 2022**
Entry level: **0-1 year**
Type: **Full time**
Contract: **Temporary**

Apply to this position online by following the URL and entering the Job ID in our job search:

Job ID: **357313**
www.infineon.com/jobs

Contact

Silke Jaschik
Student Attraction Manager



Benefits

- **Munich:** Coaching, mentoring networking possibilities; Wide range of training offers & planning of career development; International assignments; Different career paths: Project Management, Technical Ladder, Management & Individual Contributor; Flexible working conditions; Home office options; Part-time work possible (also during parental leave); Sabbatical; On-site creche and kindergarden with 120 spots, open until 6pm; Holiday child care; On-site social counselling and works doctor; Health promotion programs; On-site gym, jogging paths, beachvolleyball, tennis & soccer court; On-site canteen; Private insurance offers; Wage payment in case of sick leave; Corporate pension benefits; Flexible transition into retirement ; Performance bonus; Reduced price for public transport and very own S-Bahn station; Access for wheelchairs

Why Us

Part of your life. Part of tomorrow.

Infineon is a world leader in semiconductor solutions that make life easier, safer, and greener. Our solutions for efficient energy management, smart mobility, and secure, seamless communications link the real and the digital world.

– Power & Sensor Systems (PSS) drives leading-edge power management, sensing, and data transfer capabilities –

Infineon **PSS** semiconductors are enabling intelligent power management, smart sensitivity, and fast, reliable data processing in an increasingly digitalized world. Our state-of-the-art power and connectivity devices make chargers, servers, mainboards, power tools, and lighting systems smarter, smaller, lighter, and more energy-efficient. In addition, our trusted sensors give things an intuitive sensing capability to make them contextually aware, and our RF chips support fast and reliable data communications.

** The term gender in the sense of the General Equal Treatment Act (GETA) or other national legislation refers to the biological assignment to a gender group. At Infineon we are proud to embrace (gender) diversity, including female, male and diverse.*

