

# Driving decarbonization and digitalization. Together.



## Master Thesis: Quantum Simulation for Novel Sensing Materials

### Job description

As a global semiconductor leader in power systems and IoT, we enable game-changing solutions for green and efficient energy, clean and safe mobility, as well as smart and secure IoT. That's why you probably use our products every day: smartphone, charger, electric toothbrush, coffee machine, refrigerator, remote control and much more. We are looking forward to your application!

- **Experience research:** You will evaluate the potential of quantum simulation techniques to analyze different materials in terms of their sensory properties
- **Take responsibility:** You will build a suitable simulation infrastructure
- **Focus on the future:** You will gain practical experience with state-of-the-art quantum computing algorithms
- **Lifelong learning:** You learn how to apply different learned techniques in an industrial environment

### Profile

- **Study field:** You are currently at the end of your master's studies Quantum Science and Technology, Physics or similar
- **Skills:** You are familiar with Python and have first experience with Qiskit or PennyLane
- **Interests:** You bring first knowledge of quantum computing algorithms and simulation methods and have a general background in physics
- **Language skills:** You have fluent English skills, German is a plus

Please attach the following documents to your application:

- CV in English
- Certificate of enrollment at university
- Latest grades transcript (not older than 6 months)
- High school report

### Benefits

### At a glance

Location: **Munich (Germany)**  
Job ID: **HRC0492415**  
Start date: **as soon as possible**  
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. Alternatively, you can also scan the QR code with your smartphone:

Job ID: **HRC0492415**  
[www.infineon.com/jobs](http://www.infineon.com/jobs)



### Contact

**Kerstin Meier**  
Recruiter



- **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 220 spots, open until 5:30pm; 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; Possibility to work remotely from abroad (EU)

## Why Us

### Further links:

[Find out](#) what we are looking for in your CV

[Find out](#) how the student application process works with us

[Discover](#) our student website

### **Driving decarbonization and digitalization. Together.**

Infineon designs, develops, manufactures, and markets a broad range of semiconductors and semiconductor-based solutions, focusing on key markets in the automotive, industrial, and consumer sectors. Its products range from standard components to special components for digital, analog, and mixed-signal applications to customer-specific solutions together with the appropriate software.

### **– You can find the headquarters of Infineon Technologies AG in Neubiberg –**

In Campeon, besides working towards our goal of being one of the most sustainable companies in the world, we are improving everyone's future by making the technology of tomorrow.

At Infineon, we take work-life balance very seriously. You will be a step away from the center of Munich with its infinite possibilities. Whether you're a history buff, a foodie, or simply looking for relaxation in the city. Munich has something for everyone. Come and discover the warmth and charm of this city, where Bavarian hospitality meets modern urban living.

### **We are on a journey to create the best Infineon for everyone.**

This means we embrace diversity and inclusion and welcome everyone for who they are. At Infineon, we offer a working environment characterized by trust, openness, respect and tolerance and are committed to give all applicants and employees equal opportunities. We base our recruiting decisions on the applicant´s experience and skills.

We look forward to receiving your resume, even if you do not entirely meet all the requirements of the job posting.

Please let your recruiter know if they need to pay special attention to something in order to enable your participation in the interview process.

[Click here](#) for more information about Diversity & Inclusion at Infineon.

