



Internship: Machine Learning in Pre-Silicon Verification of Digital Designs (f/m/div)*

Job description

You are curious about Machine Learning and looking for a challenging verification internship in field of Digital Design to foster your skills? Apply now at the Development Center in Dresden!

In your new role you will:

- Get familiar with **Unix environment and tools** used for functional verification
- Hands-on with state-of-the-art verification concepts such as **SystemVerilog-UVM and formal verification**
- Help on setting up **automation to reduce product development cycles**
- Support on **research tasks related to data science and machine learning**
- Work on **verification tasks** that occur within our projects

Profile

You are best equipped for this task if you:

- Are currently studying **Computer Science, Electrical Engineering** or a related subject
- Are well versed with **object oriented programming and scripting languages**
- Have practical knowledge in **data science and machine learning**, additional knowledge on **deep neural networks** and their tuning would bring the advantage
- Have good knowledge in the field of **digital circuit design, Verilog and SystemVerilog** would be advantageous
- Ideally already gained knowledge about **SoC verification** topics such as **SystemVerilog-UVM and formal verification**

Please attach the following documents to your application:

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

Benefits

At a glance

Location: **Dresden (Germany)**
Job ID: **360801**
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: **360801**
www.infineon.com/jobs

Contact

Lina-Marie Minuth
Student Attraction Manager



- **Dresden:** 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 in office jobs; Home Office possibilities; Part-time work possible (also during parental leave); Spots in local kindergarden; On-site social counselling and works doctor; Health promotion programs; Fitness Room; 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, car sharing, charging station for e-cars and e-bikes; Accessibility, 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.

The **Development Center Dresden** was launched in 2019 and is growing successfully. Today, a total of 92 top-class experts and young talents from 18 nations are working on research and development of new products and solutions for automotive and power electronics, chip design and verification, characterization of complex systems as well as development of products and solutions with artificial intelligence. In the long term, the Development Centre will employ around 250 people. State-of-the-art research and characterization labs facilitate R&D activities for automotive applications, electromobility and AI chips of the next but one generation. The Development Center covers the complete development value chain from product and system definition to qualification.

This is the right place for you, if you want to work in a high-tech environment, master challenges of advanced product development, be part of a multicultural team with great spirit and experience a startup-like culture.

[Click here](#) for more information about working at DC Dresden with interesting employee and management insights and an overview with more Jobs at #DCDresden.

The central R&D organization „**Design Enabling and Services**“ (DES) provides the design environment to the different Infineon product development teams. With state-of-the-art design methods, building blocks and a wide range of product development services DES supports Infineon's advanced IC development from early high-level system models to verified products ready for manufacturing.

** 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.*

