Barkhausen Institut gGmbH - Internet of Things

barkhausen institut

The Barkhausen Institut performs research on the latest hardware, software and communication technologies and demonstrates their application in tomorrow's society. Our goal is to build a flexible and trustworthy IoT platform based on reliable electronics and secure communication methods. The group Scalable Computing Hardware is developing a secure and dependable multiprocessor system-on-chip (MPSoC) to establish a hardware platform for applications in the area of connected electronic systems. At the earliest possible date we are looking for a **Senior Engineer "Digital Hardware Design" (m/w/d)**.

Senior Engineer "Digital Hardware Design" (m/w/d)

City: Dresden; Starting date (earliest): At the earliest possible; Duration: The position will initially be filled for a period of 2 years.; Remuneration: TV-L E-13; Reference number: Senior Engineer - Digital Hardware-Design

Tasks

- Designing, developing and integrating digital hardware architectures for ASIC and FPGA designs
- Independently defining, planning, and leading hardware architecture concepts
- Implementing, simulating, and verifying digital hardware on RTL level using EDA software tools
- Supporting FPGA prototyping and ASIC front-end design through to tape-out
- Collaborating with backend teams to analyze and optimize RTL designs
- Creating design and verification documentation
- Setting up and managing Git flows and CI/CD pipelines

Requirements

- Above-average M.Sc./Diploma degree in the field of electrical engineering/computer science or a comparable qualification
- An integrative and cooperative personality with excellent communication and social skills
- Very strong programming skills in Verilog/VHDL and Python
- At least 5 years of professional experience in ASIC design, including working with modern EDA software tools (Cadence, Synopsys, open-source)
- Very good communication and writing skills in English and German
- Basic technical knowledge in the areas of processor systems and hardware security

You are interested, but you don't think you meet all the requirements of the job posting? Then you should know: We don't hire resumes, we hire people. We are looking for potential and want to actively foster it. That's why we encourage you to apply!

What we offer

- An open and creative team
- Agile working hours and workflows
- Cross-disciplinary projects
- Work on future technologies
- Flat hierarchies for your ideas and flexible teams
- Our remuneration is based on the collective agreement for the federal states. If you meet all the professional requirements (diploma/master's degree or doctorate), this position is classified as TV-L E 13. Depending on your professional experience, the basic monthly salary ranges between €4.759,37 and €6.764,69. We will be happy to provide more details during the interview.
  If you have passion for new technologies and the desire to develop the connected world of tomorrow with us, we are looking for you.

Life and science are compatible at our institute. We offer a range of recognised family-friendly measures, such as part-time work, mobile working and flexible working hours that take family needs into account. We also offer support for arriving in Dresden (all formalities, apartment etc.).

Application

- Your application should include: CV, copy of university degree certificate
- Barkhausen Institut strives for gender and diversity equality. We welcome applications from all backgrounds. Severely disabled persons are given preference in the event of equal suitability.
- We only accept complete documents as one single PDF document by e-mail to careers@barkhauseninstitut.org. Please reference "Senior Engineer - Digital Hardware-Design" in the subject line. Applications that contain other file formats (e.g. Word, Excel) will not be considered in the selection process. Informal inquiries can also be submitted to the same address.

The data submitted by you in the course of the application procedure will be processed by the Barkhausen Institut (BI). BI shall use the data for the purposes of the application procedure. No data shall be passed on to third parties.

Reference number: Senior Engineer - Digital Hardware-Design

By email: careers@barkhauseninstitut.org

More information at https://stellenticket.de/208972/TUD/
Offer visible until 27/12/26