

Barkhausen Institut gGmbH - Internet of Things



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.

Research Associate “Layout Engineer” (m/f/d)

City: Dresden; Starting date (earliest): At the earliest possible; Remuneration: TV-L E-13;
Reference number: Layout Engineer

Tasks

- Layout design and floorplanning of digital IC designs including memory macros and custom logic implementations
- Full layout and physical verification (DRC, LVS, ERC)
- Timing analysis and power optimization
- Support RTL-to-GDSII design flows for:
 - advanced process nodes, e.g. 12nm FDSOI
 - open-source PDKs, e.g. IHP 130nm
- Custom layout for analog blocks (training will be provided)

Requirements

- MSc/Diploma or PhD degree in areas related to our research focus (Electrical/Computer Engineering) from renowned universities
- Good communication and writing skills in English
- An integrative and cooperative personality with excellent communication and social skills
- Prior experience with EDA tools for IC design, e.g. from Cadence or Synopsys

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

- Training and exposure to chip tape-outs in advanced process nodes
- Experience in full development cycles of custom IC
- 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 €4,629 and €6,580. We will be happy to provide more details during the interview.

This position is ideal for gaining serious exposure to IC development cycles and it can be a key enabler for ambitions to work in Custom/Digital IC industry. 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 motivation letter, CV, copy of university degree certificate.
- Applications from women are particularly welcome.
- 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 "Layout Engineer" 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.

More information at <https://stellenticket.de/206632/TUD/>
Offer visible until 17/09/26

