



Paderborn University is a high-performance and internationally oriented university. Within interdisciplinary teams, we undertake forward-looking research, design innovative teaching concepts and actively transfer knowledge into society. As an important research and cooperation partner, the university also shapes regional development strategies. We offer our employees in research, teaching, technology and administration a lively, family-friendly and equal opportunity environment, a lean management structure and diverse opportunities.

Join us to invent the future!

The **System and Circuit Technology Group** at the **Heinz Nixdorf Institute** offers a position, starting as soon as possible, as a

Analog RF designer (f/m/d)

(Salary group E 13 TV-L)

with 100 % of the regular working until November 30th, 2024 with the option of extending the contract at Paderborn University. This is a position within the meaning of the scientific temporary contract act (WissZeitVG) for a project position in the context of the research project "RadiOptics: High-frequency signal generator based on an optoelectronic frequency synthesizer" as part of the "Exist-Forschungstransfer". The time limit corresponds to the approved project period. The foundation of a start-up is planned during the project, with the perspective for a long-term engagement within the start-up, in case of a successful launch.

Duties:

- Develop high performance analog-signal architectures & circuits from initial concept until production, including design for: manufacturability, test, and reliability
- Block level RF frequency design
- Design, development and review of schematics and PCB layouts
- RF frequency measurements
- Create and execute test plans
- Active participation in debugging and analysis of hardware issues
- Analyze measurement data to identify performance bottlenecks, troubleshoot issues
- Find feasible electronic circuit solutions for a given set of requirements
- Being part of an R&D with startup spirit
- Working in a multicultural and interdisciplinary environment

Hiring requirements:

- Scientific Master degree in electrical engineering or higher education with a major in RF/Microwave
- Good knowledge of functioning principles of Mixers, Switches, RF amplifiers, Oscillators, Detectors and other required building blocks
- In-depth knowledge of frequency synthesis, phase-locked loops (PLL)
- Very good Experience with PCB Layout and CAD tool Altium designer
- Experience in assembling units and PCB soldering
- Experience working with sheets and drawing
- Ability to work independently and in a team
- Good knowledge of German or English

Applications from women are particularly welcome and, in case of equal qualifications and experiences, will receive preferential treatment according to state law (LGG), unless there are preponderant reasons to give preference to another applicant. Part-time employment is generally possible. Applications from disabled people with appropriate suitability are explicitly welcome. This also applies to people with equal opportunities in accordance with the German social law SGB IX.

Please send your application quoting **reference number 6374** by **May 31st 2024** to: sfard@mail.uni-paderborn.de.

Information regarding the processing of your person data can be located at: <https://www.uni-paderborn.de/en/zv/translate-to-english-personaldataenschutz>.

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