

PhD position at NaMLab

RF Device Characterization and Modeling

NaMLab is looking for a PhD candidate in the field of characterization of novel electronic devices and investigation of their degradation mechanisms by means of RF measurements. The work will be performed in close collaboration with our project partners. Main tasks will be the electrical characterization of devices, modeling and simulation of the degradation effects and the development of novel electrical characterization methods. The work includes the configuration and supervision of a RF test site and the development of RF characterization methods.

Responsibilities:

- Configuration and supervision of a RF test site
- RF electrical characterization of novel devices (transistors, memory devices)
- Design of RF test structures
- Development of novel electrical characterization techniques
- Modeling of degradation effects
- Communication with project partners and reporting

Your profile:

- M.Sc. / M.Eng. in electrical engineering / physics
- Interest in device physics and electrical characterization
- Good technical comprehension
- Ability to work in a team environment

The following skills are a plus:

- Experience in RF characterization
- Experience in Labview programming
- Experience in schematic design / layout

Period:

- Planned starting date: April 2020
- Duration: 3 years

We offer:

- Individual supervision
- Contribution to cutting-edge nanoelectronics research
- Access to various high-end characterization tools
- Possibility to adjust thesis focus according to individual preferences
- Knowledge transfer from experts in the field
- The salary is based on German research organization standards.

For further information please contact:

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