

Junior Scientist (PhD candidate) position at NaMLab

Ferroelectric Field Effect Transistors with Adaptable Polarity

NaMLab is a research organization and associated institute of the Technical University Dresden. NaMLab provides industry oriented and basic research in material science for future electronic devices. We are looking for a scientist in the field of Ferroelectric Field Effect Transistors (FeFETs) [1]. Main tasks will be the fabrication and electrical characterization of those devices in a cleanroom environment on a reconfigurable nanowire base technology [2]. Further, applications of the combined device concept are to be explored. The work will be performed in close collaboration with our scientific and industrial project partners. The results of the work might be used to obtain a PhD in electrical engineering at the TU Dresden.

[1] <https://onlinelibrary.wiley.com/doi/full/10.1002/adma.202206042>

[2] <https://onlinelibrary.wiley.com/doi/full/10.1002/pssa.202300019>

Your Profile:

- Outstanding M.Sc. / M. Eng. in Electrical Engineering, Physics, Material science or similar
- Interest in device physics and fabrication methods
- Good technical comprehension, professional English communication and writing skills
- Strong perseverance in experimental work, confidence in dealing with chemicals
- Ability to work in an international team environment

The following Skills are a plus:

- Experience with clean room processes
- German communication skills

We offer:

- Individual supervision
- Contribution to cutting-edge nano-electronic research
- Access to various high-end fabrication and 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

Period:

- Envisioned starting date: Q1 2024 (under the premise the project funding is confirmed)
- Duration: 3 years

For further information please contact:

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By sending us your application documents, you agree to the use of your personal data for the purpose of the application procedure.