

Junior Scientist (PhD candidate) position at NaMLab

Vertical Reconfigurable Nanowire Field Effect Transistors Development

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 Reconfigurable Field Effect Transistors (Fig. 1). Main tasks will be the fabrication and electrical characterization of those devices in a cleanroom environment on a vertical nanowire base technology. Further, conceptual circuit designs of the new device for neuronal network applications should be explored. The work will be performed in close collaboration with our international project partners. The results of the work might be used to obtain a PhD in electrical engineering at the TU Dresden.

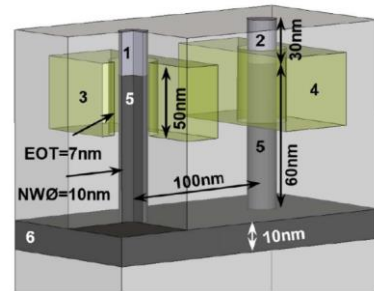


Fig. 1: Schematic image of vertical reconfigurable nanowire device built from a silicon-on-insulator base layer. (Ref. T. Baldauf 2018 IEEE EDL).

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 or French communication skills

We offer:

- Individual supervision
- Contribution to cutting-edge nano-electronic research within an interdisciplinary international team
- Access to various high-end fabrication and characterization tools
- Knowledge transfer from experts in the field
- The salary is based on German research organization standards

Period:

- Planned starting date: March 2021
- 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.