



Entry date: ASAP | Location: Aachen | Type: Student | Job Reference: FHR-2021-AutomotiveDay

Fraunhofer FHR is one of the leading and largest research institutes in Europe in the area of high frequency and radar techniques. It is part of the Fraunhofer-Gesellschaft, Europe's largest application-oriented research organization. Our research efforts are geared entirely to people's needs: space, production, mobility, defense, security, health, environment and communication. As a result, the work undertaken by our researchers and developers has a significant impact on people's lives. We are creative. We shape technology. We design products. We improve methods and techniques. We open up new vistas. Be part of it as

GRADUATE STUDENT DUAL-POLARIZATION PROGRAMMABLE METASURFACE

In this master thesis, a novel dual-polarization programmable metasurface based on Graphene Technology will be studied via different approaches, simulated, implemented and measured for Polarimetric Radar applications in automotive radars.

Your tasks

- EM simulation using CST
- Implementation
- Microcontroller or FPGA programming
- Measurements

What we expect from you

- active immatriculation in electrical engineering or similar topics
- first practical experience with electromagnetic simulation, FPGA / microcontroller programming and measurements
- knowledge in antenna design and RF electronic circuit design
- high motivation and having fun working on challenging tasks in real-world projects

What you can expect from us

- Open and collegial working environment
- Attractive conditions at one of the largest research organizations for application-oriented research in Europe
- Integration into current research projects from industry and basic research
- Interesting, practical tasks to work on independently and with your team
- Independent and creative working in a team
- State-of-the-art technology and equipment
- Excellent network within the international research landscape
- Various opportunities to boost your career (final theses, take over/direct entry, doctorate, further education)

Remuneration according to Fraunhofer company agreement.

The position is initially limited for 3-6 months. Weekly work time is max. 19,5 hours.

In case of identical qualifications preference will be given to severely disabled candidates.

We would like to point out that the chosen job title also includes the third gender. The Fraunhofer-Gesellschaft emphasises gender-independent professional equality.

Please send your complete application
tim.freialdenhoven@fhr.fraunhofer.de

If you have any questions about this position, don't hesitate to contact: Tim Freialdenhoven
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