

Job Posting TRR 196/2

The Collaborative Research Centre / Transregio (TRR) 196 “Mobile Material Characterization by Electromagnetic Sensing” (**MARIE**) funded by the Germany Research Foundation (*Deutsche Forschungsgemeinschaft*, DFG) will start into the 2nd funding period (2021-2024) on January 1st, 2021.

Three of the six participating institutions (University of Duisburg-Essen, Ruhr-University Bochum, University of Wuppertal, Technical University Darmstadt, Technical University Dresden, Fraunhofer Institute for Microelectronic Circuits and Systems, Duisburg) are looking for **14**

Research Assistants / PhD Positions (m/f/d) (Salary Group 13 TV-L)

Place of employment will be University of Duisburg-Essen (Campus Duisburg), Ruhr-University Bochum or University of Wuppertal, depending on the project.

Your Main Tasks:

- Active scientific involvement in the TRR 196 “Mobile Material Characterization by Electromagnetic Sensing”
- Acquisition of deeper knowledge in at least one of the following areas:
 - Radar Technology / Imaging Technology / Radiolocation / Material Characterization / Chip-Design / Antenna Design and -technology / (Radar) Signal Processing / (sub)mm-Wave Circuit Technology / Multi Antenna Systems / Wave Propagation / Computational Electromagnetics / Electromagnetic Metamaterials / Antenna Arrays / Reflectarrays / Convex Optimization / Machine Learning / Pytorch / MIMO / Photonic THz Systems / Spectroscopy Classification Algorithms

Within the scope of the employment the opportunity for further scientific qualification (**doctorate**) is given.

Your Profile:

- A very good university master's or diploma degree in electrical engineering or related fields with at least one of the following main focus areas:
 - High-Frequency Engineering / Signal Processing / Circuit Design / Components for High Frequency Electronics / Computational Electromagnetics / Multiphysics Simulations / Photonic THz Systems / Spectroscopy
- If possible, first experiences in research projects and especially the publication of research results
- Very good English skills
- Willingness and pleasure in working in a team are required

Start Date: from 04/01/2021
Contract Period: 31/12/2024 (Project end)
Working Hours: 100% full-time
Deadline for Applications: 31/01/2021

The participating institutions are committed to promote the diversity of its members. It aims at increasing the proportion of female faculty members and therefore explicitly encourages women with the relevant qualifications to apply. In accordance with state equality legislation, women with equal qualifications will be given priority.

People with disabilities are also encouraged to apply (see Section 2 Paragraph 3 of the German Social Code (SGB IX)).

Please send your application mentioning code number TRR 196/2 and up to 3 projects you are interested in (see <https://www.trrmarie.de/research/projects/>) via mail to:
Dr. Munisch Wadwa (munisch.wadwa@uni-due.de), University of Duisburg-Essen, Faculty for Engineering, Oststr. 99, 47057 Duisburg.

Further information on the TRR 196 and the involved projects can be found on www.trrmarie.de.