

Job advertisement

2 PhD positions available at University Duisburg-Essen within an Innovative Doctoral Training Network on Terahertz Technologies [TeraApps]

- **Triple Barrier Resonant Tunnelling Diodes (TB RTD) for Signal Generation and Detection:** Ultra-High Frequency Measurement Techniques, Semiconductor Technology
- **Antenna-in-Antenna Sub-harmonic Injection Locking for Resonant Tunnelling Diode Oscillators:** Computational Electromagnetics, THz antenna for signal detection/emission

Organisation/Company:

University of Duisburg-Essen, Faculty of Engineering/Electrical Engineering, Duisburg, Germany

Horizon 2020 - research and innovation framework programme:

TeraApps is a Marie Skłodowska-Curie Curie innovative training network on terahertz (THz) radiation, with frequencies between 0.3 THz and 3 THz. In 10 leading European research labs at mobile and compact THz components will be developed and tested. TeraApps will acquire a unique multidisciplinary skill set and will be uniquely placed to support these activities in academia and industry within their future careers, giving them a competitive advantage and creating a project legacy. Please refer for further details to www.ate.uni-due.de/ and/or www.bhe.uni-due.de/.

Requirements (check¹ for details): The candidates

- are within the first four years of their research career and have no PhD.
- must not have resided or carried out his/her main activity in the country of the host organization for more than 12 months within the previous 3 years.
- have excellent analytical skills and very good knowledge of English language is postulated. Hold a Master Degree or equivalent in Electrical and Electronics Engineering, Nano Engineering or Physics.

Recommendations

- excellent academic record in one or more areas such as microelectronic device science and technology, computational electromagnetics, or RF engineering along with a solid academic background in semiconductor physics.

Type of Contract: Temporary for 36 months, full-time, salary: 3,672.68 € per month plus living, mobility and family allowance. Income is subject to national tax requirements. Funding for travel, secondment, and training is available. Further graduation will be supported!

Start of Employment February 1st, 2018.

Application:

Along with your application and CV, please send the names of at least two persons for references including their phone number and email address. Deadline: December 31th, 2017.

Write in the subject of your application e-mail: "ESR Marie Skłodowska-Curie - TeraApps" and mail it to the following address: Daniel.Erni@uni-due.de or Werner.Prost@uni-due.de

The University of Duisburg-Essen aims to increase the diversity of its members (please see <https://www.uni-due.de/diversity>).

¹ <https://ec.europa.eu/digital-single-market/en/content/code-conduct-recruitment-researchers-commission-recommendation-11-march-2005-european>