

Wir bieten an den Standorten Hagen, Iserlohn, Meschede, Soest und Lüdenscheid 69 Bachelor- und Masterstudiengänge an – auch berufsbegleitend und zusammen mit Bildungspartnern an weiteren Standorten. Mit mehr als 12 000 Studierenden gehören wir zu den größten Fachhochschulen in NRW. Exzellente Lehre in persönlicher Arbeitsatmosphäre und überschaubaren Gruppen schafft gute berufliche Perspektiven für unsere Absolventinnen und Absolventen. Forschung und Entwicklung sind uns wichtig und regional, überregional und international ausgerichtet. In Lehre und Forschung genießen wir ein hohes Ansehen.

The South Westphalia University of Applied Science offers the following position in the research project „The impedance probe: a possible industry compatible diagnostic tool in metallic depositing plasmas“ in the department of Electrical Power Engineering at the campus in Soest, Germany to be filled as soon as possible:

## **Research Associate (m/f/d)** **- Research project Modeling and Simulation of the Impedance Probe in technical Plasmas -**

### **Typical tasks**

- Research and coordination of the project on the Impedance Probe
- Modeling and Simulation of the interaction between the impedance probe and the plasma
- Support in project acquisition and proposals
- Publication of results in journal paper and conference contributions
- Documentation of the project via reports

### **Essential characteristics:**

- Above-average completed university degree, especially in the fields of computational engineering or science, electrical engineering, plasma science physics, mathematics, or similar
- Very good knowledge in plasma physics and/or technical plasmas as well as simulation of electromagnetic fields (ideally in CST)
- Programming experience in at least one language (C/C++, Python, or similar) is expected, knowledge in parallelization is an advantage
- A high level of proficiency in English language (written and spoken) and a structured and self organized way of working is expected, knowledge in German is an asset
- Further knowledge in kinetic theory, functional analytic methods, and/or solving of large linear systems of equations is an advantage

### **Contract conditions**

The full time position in salary group EG TV-L 13 (100%) is offered for a period of three years. The opportunity for further personal qualification (PhD) is available.

### **Application**

Further information will be given by Prof. Dr.-Ing. Oberrath  
[oberrath.jens@fh-swf.de](mailto:oberrath.jens@fh-swf.de) (no application documents)

The South Westphalia University of Applied Science is an equal opportunity employer committed to fostering heterogeneity among its staff. Disabled applicants with equal qualifications will be given priority consideration.

Please apply with the usual documents and a research motivation of 2 pages DIN A4 letter with the keyword **18/2021 only** via the online application page [www.fh-swf.de/cms/stellen/](http://www.fh-swf.de/cms/stellen/) until **31<sup>st</sup> of May 2021**.