

# **PhD-Student / Scientist (f/m/d) Simulation of Gas Evolution in Electrolyzers**

Helmholtz Zentrum Dresden-Rossendorf (HZDR) / Institute of Fluid Dynamics in Dresden, Germany invites applications as PhD-Student / Scientist (f/m/d) Simulation of Gas Evolution in Electrolyzers. The position will be available from 1 May 2022. The employment contract is limited to three years. The deadline for applications is March 31, 2022.

## **Tasks:**

- Numerical simulation of multiphase flows in electrochemical energy devices
- Focus on growth/dynamics of gas bubbles in supersaturated solutions
- Development of advanced simulation tools
- Interaction with experimental groups and industry partner
- Opportunity to prepare a PhD thesis

## **Requirements:**

- Master's or Diploma degree in Mathematics, Physics, Mechanical or Chemical Engineering or similar
- Experience in modeling multiphysics flow problems
- Coding experience (C, C++, script languages)
- Useful are experiences with OpenFOAM/basilisk/Comsol/CFX/Fluent
- Very good communication skills in English, of advantage would be communication skills in German
- Cooperating with project partners including industry

## **More details and application platform:**

<https://www.hzdr.de/db/Cms?pNid=490&pOid=65442&pContLang=en>