

Doctoral Researcher in Electrochemistry (m/f/d) and Master Researcher (in FAU or Germany) in Electrochemistry (m/f/d)

We are looking for motivated researchers to join our newly established, DFG-funded, collaborative research center, **CRC 1719 ChemPrint** "Next-generation printed semiconductors: Atomic-level engineering via molecular surface chemistry".

Your tasks

- Develop new approaches for electrodeposition of metals, chalcogenides, and semiconductor compounds, aiming to understand and control their growth.
- Analyze the deposited films and structures using scanning probe techniques and other complementary characterization methods on identical locations, to investigate their structural, morphological and functional properties.
- Able to work independently, in a team and collaborate with other researchers and mentor junior researchers.
- Deliver results within the stipulated time frame.
- Present research findings and publish peer-reviewed articles.
- Involve in laboratory management, e.g., daily operations and maintenance of equipment.

Your profile

- A Master's (or Bachelor's) degree in chemistry, materials science, or related field.
- Desired expertise: Electrochemistry, scanning probe techniques (AFM, STM, SECM)
- Additional experience in these fields is advantageous: Atomic layer deposition, sputtering, XRD, XRR, XPS, SEM.
- Excellent written and spoken English, knowledge of German is an advantage.

Our benefits

- International and interdisciplinary research environment.
- Access to state-of-the-art equipment and facilities.
- Member of the integrated Research Training Group for dual mentoring, comprehensive doctoral training program, weekly seminars, plenty of hands-on training opportunities, annual winter school, and workshops for transferrable skills.

Application

Please submit the following documents (max 3 MB) via e-mail (siowwoon.ng@fau.de) with the subject line 'PhD / Master in Electrochemistry 2025 – Your Name'.

1. One-page cover letter describing your motivation, skills, and background related to the research areas stated above.
2. CV with contact details of two references.

Other details

The position is to be filled as soon as possible. The **PhD appointment** is for a fixed term of 1 + 2 years. **Master's thesis (student assistant) in FAU or Germany** is available for 6 (up to 12) months, with the possibility to continue as a PhD thesis in 2026.

We are an equal opportunity employer and welcome applications from all qualified individuals. We particularly encourage application from female candidates. We regret that only shortlisted candidates will be contacted. In accordance with Germany's data protection regulations, application documents from candidates who are not selected will be deleted after the completion of the selection process.