Would you like to contribute to the energy transition in Germany through your work? Then the Helmholtz Institute Erlangen-Nürnberg (HI ERN) is the right place for you! The HI ERN forms the core of the close partnership between Forschungszentrum Jülich, Helmholtz-Zentrum Berlin for Materials and Energy, and Friedrich-Alexander-Universität Erlangen-Nürnberg at the Erlangen site. The collaboration relates to the areas of innovative materials and processes for photovoltaic energy systems and hydrogen as a storage and carrier medium for CO2-neutral energy. Support us in researching and developing solutions for the climate-neutral, sustainable, and cost-effective utilization of renewable energies. For more information on HI ERN and its future-oriented research areas, please visit https://www.hi-ern.de

We are offering a position as

**Team Leader Electrosynthesis**

**Your Job:**
You will lead a scientific team, aiming at mechanistic insights and developing concepts in the field of organic electrosynthesis. With the growing demand for sustainable electrocatalysis and energy conversion, a need in developing novel principles for the design of active and selective electrocatalytic systems for organic reactions emerges. Tuning of the electrode/electrolyte interfaces presents a powerful and simple tool for controlling the course of various electrochemical processes. Changing of the electrode material, composition of the supporting electrolyte, varying immobilization methods and adjusting the structure of organic interface modifiers allow for a deep insight in reaction mechanisms and to finely tune the properties of electrocatalyst interfaces for relevant reactions. In order to follow the target processes, unique high-throughput electrochemical flow cells coupled to online mass-spectrometry techniques exist in our department for swift screening of materials and monitoring of the electrochemical processes in real time, which in combination with a plethora of offline analytical methods allows to rapidly characterize the electrocatalytic system of interest. The aim is to significantly contribute to the development of selective electrosynthetic processes, which are key for sustainable...
production of chemical goods and energy conversion-related tasks. Your tasks in detail:

- Coordination and research guidance for an interdisciplinary team of PhD students (chemists, physicists, engineers)
- Design, synthesis and application in electrocatalysis of organic interface modifiers; knowledge transfer from the fields of organic chemistry and thermal catalysis
- Further development and improvement of analytical methods to follow electrocatalytic processes
- Project management of third-party funded projects
- Representing HI ERN in project meetings and at international conferences

Your Profile:

- Excellent master’s and doctoral degree in Chemistry, Physics, Engineering, or a similar discipline
- Excellent background in electrocatalysis/ electrochemistry/ organic chemistry
- Experience in supervising PhD students and postdocs
- Experience in one (or more) of the following areas is desirable: electrochemistry, electrocatalysis, analytics (Mass spectrometry, NMR, XPS, EDX, GC, HPLC, IR), homo/heterogeneous catalysis, organic chemistry
- Experience in acquiring 3rd party funding, publishing peer reviewed research and speaking at international conferences
- Intrinsic motivation to show initiative, creativity, and to work independently
- Exceptional cooperation and communication skills and ability to work as part of the team
- Excellent skills in spoken and written English

Our Offer:

We work on the very latest issues that impact our society and are offering you the chance to actively help in shaping the change! We support you in your work with:

- Excellent environment to conduct high quality research and implement own ideas in the development process
- Work with globally unique electrochemical characterisation techniques
- Excellent training in electrochemistry
- A lively scientific environment within the institute and opportunities to cooperate with excellent partners at the Friedrich-Alexander-Universität Erlangen-Nürnberg, Forschungszentrum Jülich, the Helmholtz-Zentrum Berlin and abroad.
- Extensive opportunities for further education
- Support opportunities to reconcile work and family life
- Flexible working time models, the option of slightly reduced working hours and 30 days of annual leave
- Targeted services for international employees, e.g. through our International Advisory Service

The position is initially for a fixed term of 5 years. Salary and social benefits in conformity with the provisions of the Collective Agreement for the Civil Service (TVöD).

Place of employment: Erlangen

We welcome applications from people with diverse backgrounds, e.g. in terms of age, gender, disability, sexual orientation / identity, and social, ethnic and religious origin. A diverse and inclusive working environment with equal opportunities in which everyone can realize their potential is important to us.