The Jülich Aachen Research Alliance (JARA) is an innovative cooperation model between RWTH Aachen University and Forschungszentrum Jülich.

RWTH Aachen University is one of Germany’s pre-eminent Universities of Excellence, which entails the highest quality in teaching and world-class research. RWTH addresses bold, scientific questions; it also assumes a profound responsibility toward society and transfers its knowledge into meaningful applications. In a dynamic, creative, and international environment, RWTH develops solutions to tackle both current and future challenges.

Forschungszentrum Jülich is a member of the Helmholtz Association and conducts research in the fields of information, energy, and bioeconomy on a climate-friendly energy system, a resource-efficient economy, and a digitized society. To this end, Jülich combines its competence in natural, engineering, and life sciences with its unique expertise in high-performance computing and utilizes its unique scientific infrastructure. More than 7,000 colleagues at one of Europe’s largest research centres work for a changing society: be part of it!

The Institute of Energy and Climate Research – IEK-14: Electrochemical Process Engineering at Forschungszentrum Jülich contributes its engineering and scientific expertise to work on the key elements of the value chains for water electrolysis and hydrogen utilization. Relevant expertise and know-how of electrochemical converters in a sustainable energy system of the future are based on more than 30 years of experience and have defined the institute’s position in the context of regional, national, and European collaborative projects.

Joint appointment of a full professor (W3) at Forschungszentrum Jülich and RWTH Aachen University

**Director (m/f/d) at the Institute of Energy and Climate Research:**

IEK-14 – Electrochemical Process Engineering at Forschungszentrum Jülich

in line with the Jülich model to be appointed as

**Full Professor (W3; m/f/d) for Electrochemical Process Engineering – Faculty of Mechanical Engineering**

The place of work will be Jülich.

We are seeking an outstanding individual to head IEK-14 and take on responsibility for teaching and research in the field of “electrochemical process engineering”. The professorship will interface process engineering with electrochemistry, and will act as a bridge between RWTH Aachen University and Forschungszentrum Jülich. Research at IEK-14 focuses on large-scale, demand-oriented electrochemical hydrogen production and utilization. Activities include the development of equipment for water electrolysis and fuel cells, with a focus on low-temperature processes. Research will have an experimental emphasis on the equipment scale, including cell assembly and peripheral components (e.g., educt pretreatment). A central development goal is the implementation of promising technologies and systems in demonstration plants and validation during operation. Research in electrolysis and fuel cell technology should focus on the interaction of electrochemistry and materials chemistry with process engineering in the context of industry-oriented device engineering, production engineering, diagnostics, and safety engineering. The ideal candidate will be experienced in successfully implementing technical plants. The very high scientific quality of the applicant’s prior work can be demonstrated, for example, by publications in highly ranked journals and/or patents. A successful candidate needs to show evidence in leading publicly funded projects and establishing, maintaining, and efficiently using collaborative networks both internally and externally, based on an independent scientific and methodological research focus. Excellent integration and communication skills in scientific and political environments are essential, particularly with regard to the impact of research on society. The research activities of IEK-14 will be pursued in close collaboration within the Institute of Energy and Climate Research (IEK) and the recently founded Institute for a Sustainable Hydrogen Economy (INW) at Forschungszentrum Jülich, in particular focusing on the fields of hydrogen storage and utilization, catalysis, and cell development and cell production as well as energy systems design. Cooperation in research and teaching is also expected with the Faculty of Mechanical Engineering at RWTH Aachen University in line with the “Jülich model”. The professorship will be integrated as an associate member in the collegial association Aachen Chemical Engineering (AVT). Collaborations within the profile areas of RWTH Aachen University (in particular Energy, Chemical & Process Engineering (ECPE)) but also within the Cluster of Excellence “The Fuel Science Center” and the “Hydrogen Clusters4Future” will be encouraged.

The **requirements** include a university degree, a doctoral degree and additional research experience, e.g., evidenced through a habilitation (post-doctoral lecturing qualification) or equivalent achievements gained as a university researcher or junior professor or in a research position at a university, a research institution, in industry, administration, or in another societal field. Furthermore, good teaching skills are also essential. The application should include the usual supporting documents (CV, certificates, lists of publications, teaching experience, brief summary of previous research activities including details of third-party funding, and a research concept for the position advertised).

**Applications** should be in English and will be accepted until January 29, 2023. They should be addressed to Univ.-Prof. Dr.-Ing. W. Schröder, Dean of the Faculty of Mechanical Engineering at RWTH Aachen University, and to Prof. Dr.-Ing. Wolfgang Marquardt, Chair of the Board of Directors of Forschungszentrum Jülich, and sent preferably by email to **iek-14@fz-juelich.de**. Please note, however, that communication via unencrypted email poses a threat to confidentiality as it is potentially vulnerable to unauthorized access by third parties. For information on the collection of personal data pursuant to Articles 13 and 14 of the General Data Protection Regulation (GDPR), please visit **https://www.rwth-aachen.de/gdpr-information**.

We welcome applications from all suitably qualified candidates regardless of gender. RWTH Aachen University and Forschungszentrum Jülich are certified family-friendly employers and have dual career programmes in place. We are committed to encouraging women in their careers and therefore particularly welcome applications from women. Female applicants are given preference if they are equally suitable, competent, and professionally qualified, unless a fellow candidate is favoured for a specific reason. Applications from suitable candidates with disabilities are explicitly encouraged. Upon acceptance of the position, support will be offered through a comprehensive human resource development program.

For further information on joint applications, visit: **https://go.rwth-aachen.de/befuerungen**.