Conducting research for a changing society: This is what drives us at Forschungszentrum Jülich. As a member of the Helmholtz Association, we aim to tackle the grand societal challenges of our time and conduct research into the possibilities of a digitized society, a climate-friendly energy system, and a resource-efficient economy. Work together with around 7,400 employees in one of Europe’s biggest research centres and help us to shape change!

The job will be advertised until the position has been successfully filled. You should therefore submit your application as soon as possible. We look forward to receiving your application via our Online-Recruitment-System!

Questions about the vacancy? Get in touch with us by using our contact form. Please note that for technical reasons we cannot accept applications via email.

www.fz-juelich.de
the project, establishing a robust infrastructure for data sharing and utilization.

• Work collaboratively with project partners to integrate digital artifacts into a comprehensive validation framework, ensuring best practices in data validation and tool maturity are met.

• Design and deploy enterprise-grade software components for monitoring and optimizing renewable energy technologies, leveraging expertise in engineering, data analytics, and artificial intelligence.

• Develop and synergize metadata and ontologies, crafting a first-generation recommendation model for a metadata marketplace, enhancing data interoperability across platforms.

Your Profile:

• Masters and PhD in Mechanical Engineering, Chemical Engineering, Computer Science, or a closely related field with a focus on renewable energy systems, data analytics, or artificial intelligence.

• Demonstrated experience in programming, particularly in Python, Django, or similar frameworks, with a robust understanding of data extraction and machine learning models.

• Advanced programming skills and substantial experience in software development related to digital services.

• Exceptional collaborative and communication skills, fluent in English, and capable of effective teamwork in a multidisciplinary setting.

• Additional knowledge or interest in cloud computing solutions (private/on-premise/public) and Internet of Things (IoT) technologies will be considered an asset.

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!. What we offer:

• A role within a prestigious EU-funded project significantly impacting Europe’s transition to a green economy.

• Collaboration with a consortium of top-tier research institutions and industry partners across Europe.

• Access to state-of-the-art research facilities and advanced computational resources.

• A dynamic and supportive research environment with extensive opportunities for professional development and networking.

• A competitive salary and benefits package, in line with European standards.

• Open-minded and stimulating discussion culture

• A dynamic and supportive research environment with extensive opportunities for professional development and networking

• Optimal conditions for balancing work and private life as well as a family-conscious company policy

• Comprehensive company health management and various sports activities (including a beach volleyball court, running groups, yoga classes and much more)

• Flexible work (location) arrangements, e.g. remote work

• 30 days of annual leave and provision for days off between public holidays and weekends (e.g. between Christmas and New Year)

• Targeted services for international employees, e.g. through our International Advisory Service

• Flexible working hours in a full-time position (39 hours/week) with the option of slightly reduced working hours

We offer you an exciting and varied role in an international and interdisciplinary working
environment. The position is initially for a fixed term of 1 year. Salary and social benefits will conform to the provisions of the Collective Agreement for the Public Service (TVöD-Bund), pay group 13, depending on the applicant’s qualifications and the precise nature of the tasks assigned to them.

Please submit your application including a detailed CV, a cover letter outlining your motivation and suitability for the position, and copies of relevant academic certificates. Indicate your contribution to relevant projects or publications that demonstrate your expertise in digital technologies and renewable energy systems.

Join us in shaping the future of renewable energy through digital innovation and advanced engineering. Be part of a dynamic team contributing to Europe’s green transition and the development of sustainable, efficient energy systems.

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.