



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 7,500 employees in one of Europe's biggest research centres and help us to shape change!

Are you a motivated post-doctoral researcher or a seasoned machine learning scientist looking to make a difference in society through cutting-edge AI research? This is the position for you!

The Institute for Advanced Simulation – Data Analytics and Machine Learning (IAS-8) at Forschungszentrum Jülich is dedicated to pushing the boundaries of data science theory and application. Our research spans from use-inspired, method-driven theory to application-driven research.

Join our team to the next possible date as

Staff Scientist / PostDoc – Machine Learning for Scientific Applications

Your Job:

Join our team as a dedicated scientist and contribute to our exciting research projects. Our work focuses on models and algorithms for supervised and unsupervised learning. We devise deep learning models, which find application in image-based science, including in collaboration with domain scientists on and off campus in fields like remote sensing, microscopy of cell colonies, plant sciences, health-care, and MRI imaging. Our mission is not only to create accurate solutions but also quantify model uncertainties, analyze robustness, reliability, and trustworthiness of AI models, and develop methods for explainability of AI solutions.

As part of our team, you'll have the opportunity to develop novel learning methods, investigate application and adaptation of foundation models, devise efficient training schemes for large models on high-performance computers like JUWELS and JUPITER at the Jülich Supercomputing Center. If you're passionate about AI research and eager to make a real-world impact, we want to hear from you!

Your Job:

- Work on a wide range of computer vision and machine learning methods and applications focusing on the aspects outlined above, inspired by the needs of

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

societally relevant applications, e.g. from neuro- or plant sciences.

- Advance our understanding of the underlying theory, as well as applicability to scientific applications, where explainability, interpretability, and reliability are as important as high accuracy.
- Supervise student projects at BSc, MSc, and PhD level.
- Work with experts at the Jülich Supercomputing Centre (JSC) to run your algorithms/tools on large distributed computer systems.
- Write reports and research articles, as well as grant proposals, and regularly participate in international conferences to present your own work.

Your Profile:

- Master with subsequent PhD degree in computer science (or a related field)
- Rich experience in devising machine learning models, methods, and algorithms for computer vision and image processing.
- Scientific track record with publications at internationally renowned venues in machine learning.
- Solid mathematical background, distinct analytical and numerical skills.
- Solid programming skills (e.g. Python, C++)
- Excellent ability to cooperate with other sciences and to work as part of a diverse team, interdisciplinary and cross-topical thinking.
- Very good communication skills.
- Very good English, both spoken and written. German language skills are not necessary but a plus.
- High motivation and work ethics.

Our Offer:

We work on the very latest issues that impact our research field and society, and offer the chance to help shape their future! We support you with:

- A world-leading, interdisciplinary and international research environment, providing state-of-the-art experimental equipment and versatile opportunities to grow as a curious researcher.
- Comprehensive training offers and individual opportunities for personal and professional development.
- Very good conditions for work-life balance and a family-friendly corporate policy.
- Flexible working hours and the possibility to partly work from home.
- Full-time position, with 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
- Exploration and preparation of next career opportunities supported by our Career Center & Postdoc Office (<https://www.fz-juelich.de/careercenter>)

We offer an exciting and varied role, which is initially for a fixed term of 2 years. Salary and social benefits in conformity 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, including Christmas bonus payment and social insurances (health care, unemployment, pension scheme etc.).

Please see the overview of benefits at Forschungszentrum Jülich here:

<https://go.fzj.de/benefits> . All information about the Collective Agreement for the Public Service (TVöD-Bund) can be found on the BMI website: <https://go.fzj.de/bmi.tvloed> The monthly salaries in euro can be found here: <https://go.fzj.de/bmi.tvloed.entgelt>

The job will be advertised until the position has been successfully filled. Please submit

your application at your earliest convenience, including a statement of research interests, CV, list of exams, degrees and grades, list of publications and talks, reference letters, and other relevant material.

About Jülich and the surrounding area

Forschungszentrum Jülich is one of the largest research centers in Europe, with excellent scientific equipment including one of the fastest supercomputers in the world. According to Statista Forschungszentrum Jülich is among the Top Best Employers 2025 (<https://rankings.statista.com/de/arbeitgeber/rankings/beste-arbeitgeber-deutschland-2025#rankingbersicht>). We are 7600 people located on a green campus offering an international and interdisciplinary working environment. Jülich is close to the border between Belgium, the Netherlands and Germany, and near the cultural centers Aachen, Bonn, Cologne, and Düsseldorf. The quality of life is exceptionally high and the atmosphere is both tolerant and inclusive. For an overview, please see 'Facts, Figures, People' (<https://www.fz-juelich.de/en/about-us/people/board-of-directors-and-organization/facts-figures>).

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. The following links provide further information on diversity and equal opportunities: <https://go.fzj.de/equality> and on specific support options for women: <https://go.fzj.de/womens-job-journey>