Are you passionate about using artificial intelligence to solve complex, interdisciplinary challenges? Are you interested in transforming theoretical AI concepts into practical, scalable solutions on high-performance computing (HPC) systems? If so, we invite you to join our AI Consulting Team at the Jülich Supercomputing Centre (JSC), home to Europe`s most advanced supercomputing infrastructure, including JUPITER, Europe's first Exascale system. Our team explores new applications of AI in collaboration with the diverse scientific disciplines associated with the Helmholtz Association.

Within our lab "Applied Machine Learning", you will play a crucial role in the implementation and development of state-of-the-art machine learning applications for scientific research. Join us in shaping the future of science with AI, where your expertise will contribute to groundbreaking interdisciplinary projects.

Join our team to the next possible date as

AI Consultant for Science

Your Job:

In this position, you will be an active part of our AI Consulting Team. Together with our partners, we develop new and innovative applications of Machine Learning. You will connect to scientists and investigate possible applications of ML in fields like Chemistry, Numerics, Computational Biology, Astrophysics, Heliophysics etc. You will be involved in all phases of this process. You will

- Identify new applications for Machine Learning in science, engineering, and technology
- Develop, implement and refine ML techniques
- Implement parallel ML training on the High Performance Computers
- Engage in national and international ML/DL communities, most importantly in the Helmholtz AI platform: https://www.helmholtz.ai/
- Present research results at scientific meetings, conferences, and as scientific papers
- Contribute to educational events, such as courses and hackathons

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

Your Profile:

- Excellent Master and preferably subsequent PhD degree in Computer Science, Mathematics, Physics, engineering or similar fields
- Broad knowledge and practical experience in AI and applied Machine Learning is a must
- Broad interest in diverse scientific topics
- Self-motivated personality with a curiosity for working in a multidisciplinary team environment on scientifically challenging problems
- Excellent communication skills in written and spoken English
- Hands-on experience with ML/DL workflows and common software libraries
- Practical experience with High Performance Computing (HPC) systems is an advantage
- Your experience should be documented in research papers and Open Source code projects

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:

- Work on frontiers of scientific and technological challenges with access to cutting-edge and unique supercomputing systems, including JUPITER, the first Exascale computer in Europe
- Comprehensive training courses and individual opportunities for personal and professional further development
- Extensive company health management
- Ideal conditions for balancing work and private life, as well as a family-friendly corporate policy
- Flexible work (location) arrangements, e.g. remote work
- Flexible working hours in a full-time position (39 hours/week) with the option of slightly reduced working hours - https://go.fzj.de/near-full-time
- 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

In addition to exciting tasks and a collaborative working atmosphere at Jülich, we have a lot more to offer: https://go.fzj.de/benefits

The position is initially for a fixed term of 2 years, with possible long-term prospects. Salary and social security benefits will conform to the provisions of the Collective Agreement for the Public Service (TVöD-Bund), pay group 13, depending on your current qualifications and the precise nature of the tasks assigned to you. All information about the Collective Agreement for the Public Service (TVöD-Bund) can be found on the BMI website: https://go.fzj.de/bmi.tvoed The monthly salaries in euro can be found here: https://go.fzj.de/bmi.tvoed.entgelt

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.

Further information on diversity and equal opportunities: https://go.fzj.de/equality