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 7,100 employees in one of Europe’s biggest research centres and help us to shape change!

Supercomputers help us to find solutions to major scientific challenges and are indispensable for modern research. The Jülich Supercomputing Centre (JSC) operates one of the most powerful computer systems for scientific and technical applications in Europe and makes it available for research purposes to scientists at Forschungszentrum Jülich, in Germany, and throughout Europe. The Jülich UNified Infrastructure for Quantum computing (JUNIQ) integrates quantum computers (QC) and quantum annealers in the form of quantum-classical hybrid computing systems into the modular high performance computing environment of the JSC. In co-operation with the research group for Quantum Information Processing of the JSC, JUNIQ is involved in several cutting-edge research activities developing QCs and quantum algorithm.

Scalasca Performance Analysis Group
The Performance Analysis Group in Jülich is developing automatic performance analysis tools
Score-P + SCALASCA + Cube for parallel computers together with international partners. In our team of research staff

We are looking to recruit a

Master Thesis for Scalasca Performance Analysis Group

Your Job:
Your tasks will include:
• Research and development in the area of programming tools for parallel computing
• Experience in software engineering
• Working in an international team
• Preparation of a master thesis in HPC research area

Your Profile:
• A bachelor’s degree in computer science or a related discipline
• Programming practice in C/C++
• Experience with Qt library
• Familiarity with UNIX-like system environments
• Good command of English
• High motivation and the ability to work effectively with others

Additional qualifications:
• Knowledge of parallel programming (OpenMP, C++11 threads, MPI)
• Knowledge of UX/GUI development

**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:
• An interesting and socially relevant topic for your thesis with future-oriented themes
• Ideal conditions for gaining practical experience alongside your studies
• An interdisciplinary collaboration on projects in an international, committed and collegial team
• Excellent technical equipment and the newest technology
• Qualified support through your scientific colleagues
• The chance to independently prepare and work on your tasks
• Flexible working hours as well as a reasonable remuneration
• A large research campus with green spaces, offering the best possible means for networking with colleagues and pursuing sports alongside work

The position is for a fixed term of 6 months.

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.