The GWDG is seeking a

Quantum Software Engineer (m/f/d)

to join an interdisciplinary team of HPC experts in the working group "Computing" (AG C) with a regular working week of 39 hours (100%). Remuneration is in accordance with the collective agreement for the German public service (federal government); depending on qualifications, the position will be grade E 13. The position is suitable for part-time work and initially limited to four years. The GWDG strives for long-term cooperation. If interested, there is the possibility of a doctorate.

The Gesellschaft für wissenschaftliche Datenverarbeitung mbH Göttingen (GWDG) is the university computing center for the Georg-August-Universität Göttingen and a computing and IT competence center for the Max Planck Society. The provision of high-performance HPC systems has been one of its tasks for over 40 years. In 2020, the University of Göttingen / GWDG was accepted as one of eight computing centers (NHR-Nord@Göttingen) in the National High-Performance Computing (NHR) network. The GWDG also operates the national AI service center KISSKI and is a partner in the EU AI Factory HammerHAI. Furthermore, GWDG operates HPC resources for the German Aerospace Center (DLR). As a national supercomputing center, the GWDG provides technical support to researchers and students from various scientific domains, including digital humanities, life science, earth system science, and engineering. We also participate in both national and international research projects.

To add a new chapter to our commitment to providing innovative technical services, we are looking for a highly motivated candidate to be part of the QUICS (Quantum Innovation and Computing for SME) project. QUICS aims to provide low-threshold, secure, and reliable access to quantum resources for SMEs via an online portal. In addition to providing access, the goal is also to support companies in identifying and implementing meaningful use cases for quantum computing. Therefore, the successful candidate should have prior experience with using quantum technologies to solve problems from different domains, experience with different quantum backends, and using quantum simulators.

The GWDG together with the Faculty of Mathematics and Computer Science and the Campus Institute Data Science (CIDAS) of the University of Göttingen provides a stimulating research environment in Scientific Computing, with an opportunity to conduct research in the intersection of applied computer science, High-Performance Computing, Quantum Computing, and AI.

Responsibilities

We have a wide range of potential responsibilities that we would like to discuss with you. Your responsibilities in our team could include, for example:

- Development of instructive use cases from various domains to evaluate QC applicability for SMEs
- Developing and maintaining hybrid classical-quantum workflows
- Performing suitability analyses for industrial and scientific QC applications
- Scalable and efficient setup of quantum computing simulators in an HPC environment
- Efficient, cost-aware execution of quantum algorithms on cloud-based quantum computing backends
- Stay current with advancements in quantum computing research and translate findings into actionable solutions
- Present findings on conferences and contribute to scientific reports and publications
- Contribute in designing courses and hands-on for different training programs

Requirements

- Completed university degree (Master/Diploma) in Computer Science, Physics, Mathematics, Computational Science, or a related field
- Good knowledge in quantum computing (programming, algorithms, NISQ architectures)
- Software development, particularly in Python, including Jupyter environments
- Familiarity with working on HPC systems, including GPUs
- Excellent analytical skills, problem-solving skills, and communication skills
- Fluent in written and spoken English

Desirable

- Ability to communicate technical concepts to non-technical customers
- Experience with customer-facing technical roles
- Basics in agile software development (e.g. Kanban, Scrum)
- Experience with service-oriented user support
- Exposure to HPC, scientific computing, or data-intensive domains
- Intermediate knowledge of German

Our offer

- Flexible working hours and opportunity for mobile working
- A modern, diverse, and exceptional work environment with close proximity to academia and research at the intersection of several innovative technology sectors
- An interesting, versatile job in a large, internationally operating IT competence center
- Collaboration in a competent and committed team
- Qualification and further development of your skills
- Social benefits of the public sector

Your application

Have we sparked your interest? Then please send us your application by **16.03.2026** via our online form.

The GWDG strives for gender equity and diversity and therefore welcomes applications from any background. The GWDG strives to employ more severely disabled people. Applications from severely disabled persons are expressly encouraged.

If you have any questions about the advertised position, please contact Dr. Christian Boehme (e-mail: christian.boehme@gwdg.de).