



For the recently launched infrastructure initiative **German Human Genome-Phenome Archive (GHGA)** a research position as

DEVOPS ENGINEER / CLOUD SPECIALIST (M/F/D)

is available at the University of Tübingen (scientific staff, E13 TV-L, 100%).

GHGA is part of the national program for research data infrastructure (NFDI) and will act as a national node within the federated European Genome-phenome Archive (EGA). As a key component within the German research infrastructure landscape, GHGA will support genomics data hubs with software tools for secure data and metadata storage, interactive data portals with data visualization, and streamlined data deposition and acquisition solutions.

To develop the GHGA software platform into a state-of-the-art infrastructure for the secure exchange of genome data, we are looking for a *DevOps Engineer / Cloud Specialist* with substantial experience and/or interest in developing, deploying, and maintaining the cloud platforms for the GHGA infrastructure. The successful candidate will be part of an interdisciplinary research, development, and data management team to explore, develop and apply a diverse range of state-of-the-art technologies.

As a recently launched project, GHGA offers its employees room to shape the software development from the start. Your input will help GHGA reach its mission to make omics data in Germany more accessible and help drive German genome research forwards, nationally and internationally. Your expertise will define standards within Germany and allow Germany to be a strong player within international efforts.

Your responsibilities:

- Develop a state-of-the-art infrastructure for the deployment of services across multiple data centers
- Design and implement scalable solutions based on modern cloud frameworks and technologies such as Kubernetes, service meshes, and event meshes
- Build hybrid cloud solutions that span multiple private or public cloud providers and include edge computing scenarios
- Implement system security measures and perform penetration testing
- Support developers in an agile setting to productionalize their software and make it ready for continuous deployment

Requirements:

- Master's degree or equivalent in Computer Science or similar technical background
- Extensive experience in building and deploying Docker containers
- Familiarity with infrastructure as code frameworks such as Ansible or Terraform
- Experience in describing container relations as code using e.g., helm charts or Docker Compose
- Experience with CI/CD pipelines such as GitHub Actions
- Experience and/or strong interest in working with Kubernetes Clusters
- First-hand experience with private OpenStack-based clouds, public providers such as AWS, Azure, and GCS, familiarity with GitOps services like Argo CD, Flux CD, or Jenkins X is a plus



- You enjoy working in an interdisciplinary team and talking to software developers, sysadmins, as well as domain experts
- You enjoy working with modern technologies and staying up to date with new tech trends
- High proficiency in spoken and written English

The ideal applicant should have demonstrated the ability to work independently and creatively. The candidate should have excellent communications skills and be able to clearly articulate the technical needs, set clear goals and work within an interdisciplinary setting, communicating with other partners.

We offer:

- The chance to shape a key emerging scientific data infrastructure for storing and sharing omics data in Germany
- An interesting, versatile workplace in an internationally competitive scientific setting
- An international, attractive working environment
- A campus with modern state-of-the-art infrastructure
- A competitive salary according to TV-L including comprehensive social benefits
- The possibility to work part-time
- Flexible working hours
- A comprehensive training and development program

The University of Tübingen is committed to increase the proportion of women in science and qualified women are particularly encouraged to apply. Equally qualified applicants with disabilities will be given preference.

Applications will be accepted until December 31st, 2021, and should include a motivation letter, CV, and academic records. Please send informal inquiries or your application as a single PDF via email to

Dr. Leon Kuchenbecker (leon.kuchenbecker@uni-tuebingen.de), Tel. +49 7071 29 74612

The employment will be carried out by the administration of the University of Tübingen and is initially limited to a duration of 2 years.

Earliest Possible Start Date: 01.02.2022