The mission of the Berlin Institute of Health at Charité (BIH) is medical translation: transferring biomedical research findings into novel approaches to personalized prediction, prevention, diagnostics and therapy and, conversely, using clinical observations to develop new research ideas. The aim of its more than 400 scientists is to deliver relevant medical benefits to patients and the population at large. The BIH is also committed to establishing a comprehensive translational ecosystem as translational research unit at Charité – one that places emphasis on a system-wide understanding of health and disease and that promotes change in the biomedical research culture. The BIH was founded in 2013 and is funded 90 percent by the Federal Ministry of Education and Research (BMBF) and 10 percent by the State of Berlin. The two founding institutions, Charité – Universitätsmedizin Berlin and Max-Delbrück-Center for Molecular Medicine in the Helmholtz Association (MDC), were independent member entities within the BIH until 2020. As of 2021, the BIH has been integrated into Charité as its third pillar; the MDC is privileged partner of the BIH.

For the Brain Simulation Section of the BIH we are looking for

<p style="text-align:center"><strong style="color:magenta">Software Engineers (Scientists) (f/m/d)
Starting at the next possible date limited until the 30.06.2026</p>

The Brain Simulation Section (brainsimulation.org) of Charité – Universitätsmedizin Berlin seeks Software Engineers (Scientists) for further developing our Brain Simulation platform Virtual Brain Cloud. Our offices are located in Berlin, Germany.

Our team of scientists and engineers builds data science platforms that address the needs for secure collaborative research on sensitive patient data on shared infrastructures like cloud platforms and high-performance computers. Our platforms are built with a focus on privacy by design and by default to ensure that neuroscience and medical research on personal health data (like magnetic resonance images of the brain, genomes, and clinical assessments) can be performed without compromising the privacy of patients and research participants.

The position comes with the opportunity to work and develop your skills in a multidisciplinary team.

Your area of responsibility:

Collaboration on a large-scale interdisciplinary project with internal and external partners from the fields of informatics and data science.

- Scientific development and maintenance of our open source-based data platform
- Maintain availability and scalability of our data platform
- Infrastructure configuration and deployment
- Automatizing our platform using CI/CD components
- Development of tools and services
- Respond to support requests
- Create alerts about infrastructure/platform/service health
- Respond to alerts
- Security incident response
- Update/patch packages
- Fix bugs in production system
- Monitor status of jobs, pods
- System availability, latency, performance
- Backup/snapshots/restore
- Restarting VMs

Your profile:

- Academic degree in Computer Science or equivalent
- 3+ years experience as Dev Ops Engineer or Site Reliability Engineer
- 2+ years of Python programming
- 1+ years of experience with Docker, Helm, Kubernetes, Terraform
- RESTful HTTP API development experience
- Experience with implementing unit and integration tests, setting up and maintaining CI/CD pipelines
- Knowledge of object storage, relational (PostgreSQL) and NoSQL (Elasticsearch, Neo4j) database systems
- Experience with topics such as virtualization, identity management, authentication and authorization flows are desired
- Experience with monitoring and Log-Tracing
- Experience with Administration of Linux systems
- Experience with Scripting languages (Bash/Shell/Ruby/Python) for automatization, Infrastructure automatization, IAM and RBAC management (Keycloak)

We offer:

- A varied job in a forward-looking research institute,
- A temporary full-time position (39 hours/week),
- Remuneration up to E13 TVöD VKA-K: The grouping takes into consideration the qualifications and the personal circumstances of the candidate
- Additional benefits customary in the public sector (including annual bonus, VBL),
- 30 vacation days per year (with a five-day week) and up to 24 floating days per year.
- Family - friendly, flexible working hours for better work-life balance

We live diversity!

BIH strongly encourages qualified women to apply. Applications from people with an immigrant background who meet the hiring requirements are expressly encouraged. Severely disabled applicants and those with equal status will be given preferential consideration in cases of equal suitability.

Please submit your application via the BIH Career portal **https://jobs.bihealth.org** until the **31.12.2022**, quoting the reference number **BIH-87.22**. We are looking forward to hear from you!

If you have any questions, please contact Prof. Dr. Petra Ritter (e-mail: petra.ritter(at)charite.de).

Note: In the case of foreign university degrees, we draw your attention to the possible need for the ZAB to issue a statement of comparability. You can find more information at: https://www.kmk.org/zab/central-office-for-foreign-education.html

You can find more information about BIH at www.bihealth.org/en/