



Universität Hamburg  
DER FORSCHUNG | DER LEHRE | DER BILDUNG

As a University of Excellence, Universität Hamburg is one of the strongest research universities in Germany. As a flagship university in the greater Hamburg region, it nurtures innovative, cooperative contacts to partners within and outside academia. It also provides and promotes sustainable education, knowledge, and knowledge exchange locally, nationally, and internationally.

The Center for Data and Computing in Natural Sciences (MIN Faculty) which is currently being formed invites applications for a

## RESEARCH ASSOCIATE FOR COMPUTATIONAL SYSTEMS BIOLOGY

- SALARY LEVEL 13 TV-L -

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The position in accordance with Section 28 subsection 3 of the Hamburg higher education act (Hamburgisches Hochschulgesetz, HmbHG) commences on December 1, 2020.

This is a fixed-term contract in accordance with Section 2 of the academic fixed-term labor contract act (Wissenschaftszeitvertragsgesetz, WissZeitVG). The term is fixed until December 31, 2023. The position calls for 39 hours per week. This position is also suitable for part time employment.

The Center for Data and Computing in Natural Science (CDCS) is a new scientific institution formed as a partnership between the University of Hamburg, the Hamburg University of Technology and DESY. During the initial phase (funded by the BWFG until the end of 2023), a decision will be made on the continuation of the CDCS. The CDCS is dedicated to the development and application of modern information technologies (Data Science, Artificial Intelligence, Scientific Computing) to complex scientific questions. With modern organisational concepts (so-called Cross-Disciplinary Labs) a flexible structure is created, which works integrative between the scientific groups of computer science and mathematics on the one hand and the natural sciences on the other hand.

A total of 11 postdoctoral positions will be filled in the CDCS, 3 of which will be in the Informatics Core Unit and 2 in each of the four thematic Cross-Disciplinary Labs. The thematic priorities of the CDLs are: Astro- and Particle Physics (1), Photon Science (2), Systems Biology (3) and Control of Accelerators (4).

### RESPONSIBILITIES:

Duties include academic services in the project named above. Research associates may also pursue independent research and further academic qualifications.

## SPECIFIC DUTIES:

CDL3 Computational Systems Biology: One scientist is being sought in the field of scientific computing. Your tasks will include the implementation and supervision of research projects in a team in the thematic priority area of systems biology with cross-references to structural biology. In particular, the methodological conception, sustainable implementation, validation, optimization and application of software for structural systems biology are in the focus of attention. The writing of scientific publications, the representation of projects at conferences through lectures and posters and the publication of contributions via social media channels are expected. A strong networking with the other CDLs and the Informatic Core Unit of the CDCS is desired. In addition, your tasks will include active participation in the acquisition of third-party funded projects.

## REQUIREMENTS:

A university degree in a relevant subject plus doctorate. An interdisciplinary course of study with clear references to computer science and the natural sciences (physics, chemistry or biology) and a doctorate with thematic reference to computer-aided systems biology or structural biology. Knowledge in the structural elucidation of biological, macromolecular systems, for example with X-ray crystallography, mass spectrometry or cryoelectron microscopy as well as cryoelectron tomography on the one hand, very good computer science knowledge in the field of data science/machine learning on the other hand with practical experience in the above mentioned research field is desired. Very good organizational and language skills in English are expected.

CDCS is envisioned as an agile work environment with cross teaching and knowledge transfer among the participating scientists. We therefore encourage applications of communicative engaging individuals that have a strong interest to work in an inspiring place of mutual exchange.

The Free and Hanseatic City of Hamburg promotes equal opportunity. As women are currently underrepresented in this job category at Universität Hamburg according to the evaluation conducted under the Hamburg act on gender equality (Hamburgisches Gleichstellungsgesetz, HambGleiG), we encourage women to apply for this position. Equally qualified and suitable female applicants will receive preference.

Qualified disabled candidates or applicants with equivalent status receive preference in the application process.

For further information, please contact [info.cdcs@uni-hamburg.de](mailto:info.cdcs@uni-hamburg.de) or consult our website at <https://www.cdcs.uni-hamburg.de>. Please register under the keyword "CDL 3"

Applications should include a cover letter, a tabular curriculum vitae, and copies of degree certificate(s). Please send applications by November 16, 2020 to: [jobs.cdcs@uni-hamburg.de](mailto:jobs.cdcs@uni-hamburg.de).

Please do not submit original documents as we are **not** able to return them. Any documents submitted will be destroyed after the application process has concluded.