



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 NATURAL SCIENCES

- SALARY LEVEL 13 TV-L -

---

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 at the CDCS, 3 of which will be in the Informatics Core Unit and 2 each in the four thematic Cross-Disciplinary Labs. The thematic focuses 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:

INFORMATICS CORE UNIT: We are looking for a scientist in the field of scientific computer science. Your tasks include the execution and consulting of research projects in the team in the above mentioned thematic priorities, especially the methodical conception, selection of suitable hardware and software systems, the sustainable implementation, validation and deployment including the writing of scientific publications, the representation of projects at conferences through lectures and poster contributions and the publication of contributions via social media channels. Your contributions focus on the informatics aspects of scientific data science projects, especially in the areas of data engineering and analytics, machine learning, signal and image processing, algorithmics and optimization and software engineering. In addition, your tasks include active participation in the acquisition of third-party funded projects.

## REQUIREMENTS:

A university degree in a relevant subject plus doctorate. Study of computer science, mathematics, physics, chemistry, biology or an interdisciplinary subject between these fields and doctorate. In the case of a non-informatics degree course, a clear orientation towards informatics content is expected in the course of the degree and doctorate. Very good knowledge of computer science, especially in at least two sub-areas of data engineering/data management, data analytics/machine learning, algorithmics/optimization, software engineering. Very good practical skills in implementing complex software solutions (implementation, use of complex software libraries, sustainable software design). Experience in the application of computer science to scientific problems in at least one of the above-mentioned fields of application 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>.

Applications should include a cover letter, a tabular curriculum vitae, and copies of degree certificate(s). Please send applications by October 7, 2020 to: [jobs.cdcs@uni-hamburg.de](mailto:jobs.cdcs@uni-hamburg.de) under the keyword "ICU".

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.