



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 Faculty of Mathematics, Informatics and Natural Sciences, Department of Mathematics, invites applications for two

RESEARCH ASSOCIATES (PHD STUDENTS) IN THE DFG RESEARCH TRAINING GROUP (RTG2583) “MODELING, SIMULATION AND OPTIMIZATION OF FLUID DYNAMIC APPLICATIONS” - SALARY LEVEL 13 TV-L -

The positions in accordance with Section 28 subsection 3 of the Hamburg higher education act (Hamburgisches Hochschulgesetz, HmbHG) commences as soon as possible.

These are fixed-term contracts in accordance with Section 2 of the academic fixed-term labor contract act (Wissenschaftszeitvertragsgesetz, WissZeitVG). The term is fixed for a period of three years. The positions call for 75 % of standard work hours per week*.

RESPONSIBILITIES:

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

SPECIFIC DUTIES:

Successful candidates are required to perform interdisciplinary and collaborative research in the relevant area Optimization, primarily in the subproject O1 and O3 of the RTG2583, where each Research Associate will be assigned to one of its PhD projects, as documented in <https://www.c3s.uni-hamburg.de/rtg2583.html>. Successful candidates are required to show active participation in the ample activities of the Research Training Group RTG2583.

* Full-time positions currently comprise 39 hours per week.

REQUIREMENTS:

- A university degree in a relevant field
- Sound knowledge of applied mathematics is necessary, preferably in combination with profound experience to relevant applications in engineering
- O1: - Mathematics for climate science
 - Data assimilation
 - Feedback control
- O3: - Algorithmic optimal control of partial differential equations
 - Development of scalable algorithms for optimization
 - Applications in fluid dynamics

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 the spokesperson of the RTG2583, Prof. Dr. Armin Iske (armin.iske@uni-hamburg.de) or consult our website at <https://www.c3s.uni-hamburg.de/rtg2583.html>.

Applicants are requested to first study the RTG's research profile in <https://www.c3s.uni-hamburg.de/rtg2583/research.html>, in particular the PhD projects of Optimization.

Please send applications by **04.01.2021** to: bewerbungen.rtg2583.math@lists.uni-hamburg.de, with subject header "RTG2583". Applications should attach only one .pdf file containing the requested material.

Applications should only include the following material.

- a cover letter (no more than two pages)
- a motivation letter (no more than two pages), where candidates are required to explain their suitability for the vacant PhD projects **O1** and **O3** of the RTG2583
- a tabular curriculum vitae
- a list of publications
- a list of conference attendance
- transcripts of records for their Bachelor and Master studies
- a short indication of their current position, affiliation, and academic supervisor(s)

Applications should at this point not include reference letters or any other supplementary material, e.g. copies of theses or publications.

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.