

Faculty/Department: Mathematics, Informatics, Natural Sciences
Seminar/Institute: Department of Mathematics and CEN

Universität Hamburg invites applications for a Research Associate in the field of multi-scale numerical methods for studying canopy processes for the project “**CliCCS**” in accordance with Section 28 subsection 3 of the Hamburg higher education act (Hamburgisches Hochschulgesetz, HmbHG). The position commences on 01.01.2019.

CliCCS is an ambitious research program at Universität Hamburg and strong partner institutions. Funded by the German Research Foundation (DFG), it is part of Germany’s Excellence Strategy.

The program aims to understand climate changes, taking into account internal variability, extreme events, and unexpected side effects, addressing the natural and social spheres as well as their interactions. Thus CliCCS’ overarching research question is: Which climate futures are possible and which are plausible? CliCCS will investigate how climate changes and how society changes with it, thereby feeding back on climate. It will identify those climate futures that are consistent with both climate and social dynamics (possible), and those we expect to unfold with appreciable probability (plausible).

It is remunerated at the salary level TV-L 13 and calls for 65 % of standard work hours per week*.

The fixed-term nature of this contract is based upon Section 2 of the academic fixed-term labor contract act (Wissenschaftszeitvertragsgesetz, WissZeitVG). The term is fixed for a period of 3 years.

The University aims to increase the number of women in research and teaching and explicitly encourages women to apply. Equally qualified female applicants will receive preference in accordance with the Hamburg act on gender equality (Hamburgisches Gleichstellungsgesetz, HmbGleiG).

Our graduate school aims to help young academics thrive through all stages of their training, for more information please check the link: [Graduate School](#).

Responsibilities:

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

Specific Duties:

Development of mathematical and numerical multi-scale methods based on ideas of variational multi-scale methods for sub-grid representation of processes in the canopy layer, implementation of algorithms and process studies.

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

Requirements:

A university degree (master's level) in a relevant field. Strong mathematical background with experience in numerical modeling or simulation of geophysical wave/fluid dynamics. Background in finite volume or finite element methods. Programming skills are required, high performance computing and parallel algorithms are desirable. Very good command of English language as well as German is required. Some experience in project management as well as working in a diverse interdisciplinary environment would be desirable.

Severely disabled applicants will receive preference over equally qualified non-disabled applicants.

For further information, please contact Prof. Jörn Behrens (joern.behrens@uni-hamburg.de) or consult our website at <https://www.cliccs.uni-hamburg.de/>.

Applications should include a cover letter, curriculum vitae, and copies of degree certificate(s), submitted as one single PDF file. The application deadline is Januar 15th, 2019. Please send applications to: cliccs-jobs.cen@uni-hamburg.de. Keyword A3PhD Behrens