

The Faculty of Mathematics, Informatics and Natural Sciences / Institute of Soil Science invites applications for a

## **RESEARCH ASSOCIATE FOR THE PROJECT “CLICCS - CLIMATE, CLIMATIC CHANGE, AND SOCIETY” IN THE FIELD OF 'CARBON DYNAMICS IN THE ARCTIC' - SALARY LEVEL E13 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 1. July 2019.

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 for a period of 3 years. The position calls for 65 % of standard work hours per week\*\*.

CLICCS is an ambitious research program at Universität Hamburg and its 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).

PhD candidates are members of our graduate school, which 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 may also pursue independent research and further academic qualifications.

### **SPECIFIC DUTIES:**

The research associate will investigate the effects of tundra vegetation dynamics on the land-atmosphere greenhouse gas fluxes of permafrost-affected landscapes in the Siberian Arctic. The project will focus on landscape-scale flux measurements at different tundra sites using the eddy

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

covariance methodology. The empirical flux data will be analyzed using diagnostic statistical modeling and will be used to develop prognostic mechanistic models of vegetation-soil-carbon cycle processes in tundra landscapes.

Specific duties include:

- Setting up and maintaining two eddy covariance flux measurement systems in the Siberian Lena-River Delta during two expeditions
- Processing of eddy covariance fluxes from different heterogeneous tundra landscapes
- Diagnostic statistical modeling of greenhouse gas fluxes
- Development of new approaches for mechanistic modeling of tundra greenhouse gas fluxes in cooperation with project partners specialized in Earth system modeling
- Publication of results in international scientific journals

#### **REQUIREMENTS:**

A university degree in a relevant field.

- Theoretical and practical experience with micrometeorological measurements, especially the eddy covariance methodology
- Experience with eddy covariance flux processing
- Very good skills in scientific programming with MATLAB
- Comprehensive knowledge of data handling and statistical analysis of large datasets
- Good knowledge about energy and matter balances of arctic ecosystems
- Good scientific writing skills
- Very good skills in English; knowledge of Russian is a plus
- Very good organization and communication skills
- Interest and motivation for participation in several months-long expedition to the Russian Arctic

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).

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

For further information, please contact [lars.kutzbach@uni-hamburg.de](mailto:lars.kutzbach@uni-hamburg.de) or consult our website at [cliccs.uni-hamburg.de](http://cliccs.uni-hamburg.de).

Applications should include a cover letter, a tabular curriculum vitae, and copies of degree certificate(s). Please send applications by 08.05.2019 to: [cliccs-applications.cen@uni-hamburg.de](mailto:cliccs-applications.cen@uni-hamburg.de) (1 single PDF file).

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.