



The Bavarian Academy of Sciences and Humanities invites applications for a

## PhD Position (m/f/d)

**E 13 TV-L | limited to 3 years | Part time (67%) | Application deadline 22 September 2022**

working in the research group [Geodesy and Glaciology](#). The desired starting date is December 2022.

The BAdW is characterized by innovative long-term research in the humanities and natural sciences. It brings researchers together on an international and interdisciplinary basis, uses its expertise to make an impact on politics and society, promotes young scientists and informs the public about current scientific findings.

This doctoral research will focus on the climate sensitivity of western Antarctic Peninsula ice shelves. Numerical modelling studies will be used to investigate the current changes and assess the future stability of ice shelves and glacier tributaries. The Ice-Sheet and Sea-level system model ([ISSM](#)) is the desired ice flow model. The successful candidate will collaborate strongly with the [Remote Sensing Group](#) by Prof. Matthias Braun and the [Glacier Systems & Natural Hazards](#) group by Dr. Johannes Fürst (both [FAU](#)). Further interaction with modellers from the Alfred-Wegener-Institute ([AWI](#)) is foreseen.

### Responsibilities:

- perform computationally intensive model runs on HPC systems at the Leibniz Supercomputing Centre ([LRZ](#)), with the goal to assess the future ice shelf stability.
- The use of glaciological fields from satellite remote sensing (data assimilation) and oceanic and atmospheric forcing fields from RCP8.5/SSP585 scenarios in the model simulations. Therefore, experience with meteorological/climatological processes and data handling would be beneficial.

### Required skills:

- MSc in Earth Sciences, Physics, Computer Sciences, Applied Mathematics or a related field with an excellent grade
- Programming skills (C/C++, Fortran, Python/Matlab or similar) and using Unix/Linux computer environments
- Affinity for scientific computing and development of processing algorithms
- Good reporting and presentation skills
- Excellent level of written and spoken English
- A keen interest to join alpine field campaigns in summer and winter

BAdW is a member of the Diversity Charter and is committed to the diversity of its employees. We support the compatibility of work, family and care. Equal opportunities are of particular importance to the Academy. People with disabilities are given preference in employment if they have equivalent qualifications. The Academy is characterized by the diversity of its employees and welcomes applications from all qualified candidates, regardless of age, gender, sexual orientation, religion, ideology or ethnic origin.

### Job Application:

If you are interested in this post, please send your detailed application as a single PDF document (max. 5 MB) until **22 September 2022** to [office-keg@badw.de](mailto:office-keg@badw.de). You may address questions to [martin.rueckamp@badw.de](mailto:martin.rueckamp@badw.de) or call Dr. Martin Rückamp +49 (0) 89 23031 1195).

By submitting your online application, you confirm that you have read and understood the [information sheet on data protection](#) and consent to the collection of personal data as part of your application to the Bavarian Academy of Sciences and Humanities.

Bayerische Akademie der Wissenschaften | Alfons-Goppel-Str. 11 | 80539 München | [www.badw.de](http://www.badw.de)