

GFZ

Helmholtz-Zentrum
POTSDAM

HELMHOLTZ-ZENTRUM POTSDAM
**DEUTSCHES
GEOFORSCHUNGSZENTRUM**

The Helmholtz Centre Potsdam - GFZ German Research Centre for Geosciences is the national centre for geosphere research. As a member of the Helmholtz Association (<https://www.helmholtz.de/en/>) we are part of the largest German scientific organization. With around 1,300 employees (including our guests) we develop a sound understanding of the systems and processes of the solid Earth as well as strategies and options for action to face global change and its regional impacts, to understand natural hazards and reduce associated risks, and to assess the influence of humans on the Earth's system.

As a partner in Geo.X (<https://www.geo-x.net/>), the GFZ has access to an excellent network of other geoscience institutions in Potsdam and Berlin. This largest regional concentration of geoscientific competence in Europe offers first-class cooperation and development opportunities.

For section 4.4 "Hydrology" (department 4 "Geosystems"), we are looking for a:

Postdoctoral Researcher (m/f/x) - CAWa Green Project

Reference Number 4304

We are seeking a postdoctoral research scientist to work in the frame of the CAWa-Green project, which is part of the "Green Central Asia" initiative of the Federal Foreign Office of Germany. The postdoctoral research scientist will focus on the improved quantification of water resources in the Central Asian region in terms of Snow Water Equivalent (SWE) and water storage variations from GRACE and GRACE-FO time-variable gravity data. The expected outcomes should support the operational monitoring of available water resources and the policy dialog in Central Asia by disseminating project results to regional water organizations.

Your responsibilities:

- quantifying Snow Water Equivalent (SWE) using in-situ and globally available data (from, e.g., remote sensing, reanalyses)
- assimilation of remote sensing data (e.g. Snow Cover Area) in the modelling of SWE
- evaluation and validation of SWE with, e.g., in-situ and GRACE/GRACE-FO gravity data
- contribution in the development of policy briefs using the modelling results
- presentation of results at scientific meetings and publication in peer-reviewed journals
- compiling operational project reports and deliverables

Your qualifications:

- Master's degree and PhD in Earth, Environmental or Data Sciences, or in a related field
- advanced expertise in spatial data analysis
- assimilation/data fusion methods for Earth science applications
- expertise in the field of hydrology and hydrological modelling
- demonstrated expertise on GRACE data applications is an asset
- practical programming skills
- demonstrated capacity for international teamwork, and excellent communication skills
- creative and critical thinking and the ability to publish, demonstrated by a record of original and innovative publications
- proficiency in spoken and written English, knowledge of Russian language is an asset



Start date: as soon as possible

Fixed-term: 18 months (prolongation is subject to the availability of financial means)

Salary: This position has been assessed as being salary group 13 according to "TVöD Bund (Tarifgebiet Ost)". The salary group will be determined by the conditions of the collective wage agreement and the appropriate personal qualifications.

Working hours: full-time (currently 39 h/week); The position is, in principle, suitable for part-time employment.

Place of work: Potsdam

What we offer:

- ambitious and varied tasks in a dynamic and international research environment
- state-of-the-art equipment
- public service benefits
- extensive training opportunities
- professional career advice offered by our in-house Career-Centre
- flexible working hours and conditions
- support with finding a good work-life balance offered by benefit@work
- institute day-care centre on site
- working at the Albert Einstein science park on the Telegrafenberg in Potsdam
- good public transport connections by being in walking distance of Potsdam main station

Did we pique your interest?

If so, we are looking forward to receiving your application by the **30th June 2020**. Please use our online application form only.

Equal opportunities are an integral part of our personnel policy. We therefore very much welcome applications from qualified women. In the case of equal aptitude, severely disabled persons are given preferential consideration in accordance with the Code of Social Law IX.

Your personal data will be treated in line with Art. 6 (1b) and Art. 88 GDPR in conjunction with § 26 BbgDSG during the selection process. After the selection process has been concluded, your application documents will be deleted, in line with data protection regulation.

In case of any further queries relating to the role's responsibilities, please contact Dr. Gafurov on +49 (0) 331 288-1816. If you have any general questions about the application process, please contact Ms Buge on +49 (0) 331 288-28787.