

Reference: 156/23

Vienna, 25.04.2023

The GeoSphere Austria, Federal Institute for Geology, Geophysics, Climatology and Meteorology as an institution under public law with its own legal personality is now offering a position as

PostDoc - Research Associate (f/m/x)

in the framework of the cooperation “**IWCR – Innsbruck Network for Weather and Climate Research (IWCR)**“ of GeoSphere Austria and University of Innsbruck.

At GeoSphere Austria, the position is allocated to the NWP competence unit in the Division of Meteorological Services & Regional Offices, Department of Analysis & Model Development with an employment scope of 40 hours per week, with a place of work in Innsbruck.

GeoSphere Austria is the national geological, meteorological, climatological and geophysical service in Austria. We combine over 150 years of experience and competence with the latest research results and always put the needs of the people in the foreground in all our endeavors. With more than 500 experts, we are the knowledge partner on the topics of weather, climate change, geology, the environment, natural hazards and groundwater.

Short Description of the project

The IWCR (<https://www.uibk.ac.at/en/alpinerraum/iwcr/>) aims at optimizing the use of data and infrastructure available at both institutions, GeoSphere Austria and University of Innsbruck. Started in 2022 and planned for at least 4 years, it shall develop Innsbruck to a leading research location for meteorology, the atmosphere and climate with a focus on mountain regions. The motivation to establish the IWCR is based on the TEAMx program (<http://www.teamx-programme.org/programme/>) and thus, the research goals of IWCR and TEAMx are strongly linked.

The PostDoc working at GeoSphere Austria will focus on the NWP model AROME and will investigate the potential underrepresentation of exchange processes between boundary layer and surface in Alpine valleys in the model. The aim of this topic is to better understand the origin of the model deficiencies and to work on approaches to minimize them (e.g. adaptations in parametrizations, physics processes, representation of surface characteristics and exchange process with the atmosphere, etc.). The focus of this investigation will be the Inn valley around Innsbruck where a major part of the TEAMx field campaign will be carried out and a huge amount of observation data will be made available.

The candidate for this position is intended to work together with NWP experts at GeoSphere Austria (Innsbruck and Vienna) and with experts from University of Innsbruck (meteorology and interdisciplinary fields). Furthermore, a collaboration with other physics and surface experts from the ACCORD NWP community (<http://www.accord-nwp.org/>) is planned with the possibility of a research stay at an ACCORD partner institute.

We offer:

- A meaningful area of responsibility with personal creative freedom
- Individual training opportunities and prospects
- Short lines of communication
- An effective and innovative team
- Flexible working hours through flextime and home office
- A family-friendly environment
- Various prospects to actively take part within international NWP frameworks and cooperations

Requirements/Essential Skills:

- Academic doctoral degree in meteorology, physics, mathematics or a related subject
- Excellent English skills
- EU member state citizenship or unrestricted access to the Austrian job market
- Good repute and full capacity to act
- Ability to work as part of a team, high level of commitment, interest in continuing education/training
- Ability to work and develop within a Linux/Unix environment
- Experience in the field of atmospheric/numerical weather prediction modelling
- Knowledge of scientific programming using a high - level programming language (e.g., Fortran, C/C++, Python)
- Willingness to travel (within Europe) and participate in international conferences and workshops

Beneficial Skills:

- Good working knowledge of the German language (spoken and written)
- Experiences in international cooperation or international research projects
- Interest in scientific publishing
- High degree of self-motivation, self-reliance and ability to work in a team
- Experience to work and develop on high performance computing facilities
- Experience in the acquisition, execution, and management of national and international research and cooperation projects
- Experience with software versioning system and platforms (e.g. Git and GitLab/GitHub)

Salary:

Analogous to the federal VB-scheme (v1/1) and depending on background and qualifications of the candidate, but at least EURO 3.289,40 (gross, 14 times per year).

Place of work:

Fürstenweg 180, 6020 Innsbruck

Start of employment:

As soon as possible

Working time:

40 hours per week (full time)

Duration of employment:

The contract is limited for three years with the possibility of a 1 year prolongation; new employees go through a probationary period of one month.

More information:

Johannes Vergeiner / IWCR Management Team / johannes.vergeiner@geosphere.at

Application:

Interested candidates are invited to send their application documents **until including 16th June 2023** via E-mail to Mr. Johannes Vergeiner johannes.vergeiner@geosphere.at and to bewerbung@geosphere.at **containing the reference 156/23 in the subject.**

Please enclose the following documents with your application:

- CV
- Motivation letter
- relevant diploma and certificates

The invitation for an interview (on-site or online possible) will be sent to the candidates via E-mail. Please note that GeoSphere Austria will not refund any travel and accommodation expenses for travels to/from Innsbruck for the interview.

We especially encourage women to apply.

Note that with your application, you expressly agree on processing of your personal data.