The University of Innsbruck, Department of Atmospheric and Cryospheric Sciences (ACINN), is offering a position as

**PostDoc - Research Associate (f/m/d)**

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

At ACINN, the position is allocated to the Research Group ‘Atmospheric Dynamics’ with an employment scope of 75% over 3 years (with a potential to extend both in level of employment and/or duration).

The Department of Atmospheric and Cryospheric Sciences has a long history in, and still has a strong focus on weather and climate in mountainous terrain. It offers a full curriculum (B.Sc., M.Sc. and PhD) in Atmospheric Sciences as well as a joint M.Sc. program with the University of Trento in Environmental Meteorology. ACINN presently hosts the coordination office for TEAMx (http://www.teamx-programme.org/programme/), which is an international collaborative research program on atmospheric transport and exchange processes over mountains and is supported by WWRP and WCRP (in the framework of GEWEX’s GHP).

**Short Description of the project**

The IWCR (https://wwwuibk.ac.at/en/alpinerraum/iwcr/) aims at optimizing the use of data and infrastructure available at both institutions, GeoSphere Austria and the 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 TEAMx and thus, the research goals of IWCR and TEAMx are strongly linked.

The Postdoc working at ACINN will focus on the development, testing and extension of a new and innovative retrieval algorithm for passive microwave profilers in complex terrain. Thermodynamic profile information is key for the understanding of exchange processes in complex topography, the interaction of the turbulent boundary layer and meso-scale circulations and it can be assimilated in NWP modeling. It will ultimately be instrumental in the characterization of the Mountain Boundary Layer. The focus of this investigation will be the Inn Valley around Innsbruck, where one of the target areas of the TEAMx field campaign will be carried out and a huge amount of supplemental observations will be available for comparison and generalization.

The successful candidate for this position will be embedded in the Atmospheric Dynamics Research group at ACINN with long-standing experimental and numerical experience in complex terrain. Close collaboration within the framework of IWCR is foreseen with experts from GeoSphere Austria from the observational (input) and numerical modeling (output) sections.

**QUALIFICATIONS, SKILLS AND REQUIREMENTS:** A PhD in meteorology, atmospheric science or a related field; experience in experimental methods for boundary layer meteorology; knowledge in mountain meteorology/climatology advantageous; knowledge and experience in scientific programming, background in atmospheric processes in complex terrain, experience in project management and field activities; experience and/or interest in university level teaching; strong verbal and written communication skills are required (knowledge of German is a great advantage). Independence, strong problem-solving skills,
and an ability to work efficiently as part of a team are essential.

SALARY: Salary is determined by the salary system of the University of Innsbruck and can be commensurate with professional qualifications and experience of the successful candidate. In addition, the rules of the Austrian employment law apply.

LENGTH OF CONTRACT: The position is offered for 3 years, starting Jan 1 2024 at earliest. There is a potential for a prolongation.

HOW TO APPLY: the opening is published at the university's job portal, under https://lfuonline.uibk.ac.at/public/karriereportal.home?lang=en (search for the identification GEO-13853). You will have to submit your application material through this portal. The entry is open until December 6 2023.

In your application, please include a cover letter with a concise description of your research experience and objectives, your CV, and the names and contact information of potential referees.

The University of Innsbruck aims at increasing the proportion of women on its faculty, and therefore applications by qualified women are especially encouraged.

For further information, please, contact: Mathias Rotach, mathias.rotach<at>uibk.ac.at