

ERC-funded Postdoctoral position in numerical modeling of atmospheric turbulence in mountainous terrain

The [Atmospheric Turbulence](#) group of the Department of Atmospheric and Cryospheric Sciences ([ACINN](#)) at the University of Innsbruck (Austria) invites applications for a postdoctoral position in turbulence in mountainous terrain, with a focus on turbulence modelling .

The successful candidate will work as part of the ERC Consolidator Grant “Developing a novel framework for understanding near-surface turbulence in complex terrain (Unicorn)”, led by Prof. Ivana Stiperski. Unicorn aims to understand the processes that cause differences between turbulence in flat and mountainous terrain.

The objective of the Postdoctoral position is to perform very high resolution numerical simulations of turbulent flow over simple and complex terrain, using LES and DNS.

The position is for a total duration of 3 years, with a start date as soon as possible. The position is at a junior Postdoc level and the remuneration will be based on the Austrian collective agreement for university employees (representative figures are provided by the Austrian Science Fund, <https://www.fwf.ac.at/en/research-funding/personnel-costs/>).

Essential qualifications: PhD in Meteorology/Atmospheric science, Physics, Fluid Dynamics or Mechanical Engineering (or being close to completion); proven experience (publications) with very high resolution numerical modelling (LES and/or DNS); excellent oral and written communication skills in English; strong motivation, curiosity and creativity; good organizational skills; good interpersonal skills; ability to work independently and as part of a team.

Assets: experience with simulations over complex terrain and knowledge of mountain meteorology are of advantage

Applications received before **31 August 2022**, will be given full consideration. The application package should be submitted via e-mail to Ivana Stiperski (ivana.stiperski@uibk.ac.at) and should include the following information:

- A curriculum vitae
- A formal letter of motivation, stating your interest and qualifications for the position
- A Research statement highlighting your personal research interests within the broader Unicorn goals
- PhD thesis abstract
- Contact information for one to three referees.

University of Innsbruck aims at increasing the proportion of women at all employment levels, and therefore the **applications by qualified women are especially encouraged**.

ACINN is the leading center for studying the influence of mountains on the atmosphere at scales ranging from climatic to turbulence, with expertise in observational and modelling techniques. The postdoc will actively participate in a vibrant community of numerical

modelers. She/he will therefore also actively collaborate with other postdocs in the department, as well as scientists from other institutions.

Candidates who wish to receive further details about the position are welcome to contact Prof. Ivana Stiperski per e-mail.