

The University of Vienna (20 faculties and centres, 178 fields of study, approx. 9.800 members of staff, about 90.000 students) seeks to fill the position from 01.03.2021 of a

## Scientific Staff (post doc) at the Department of Meteorology and Geophysics

**Reference number: 11683**

We offer a 4-year post-doctoral position in the framework of the project LARA (Demonstration of a Lagrangian re-analysis), funded by the Austrian Science Fund and the Dr. Gottfried und Dr. Vera Weiss Science Foundation. The position will be embedded in the new research group of Prof. Andreas Stohl on atmospheric Lagrangian transport modelling. Our department has recently hired three new professors and is growing quickly, offering an exciting international research atmosphere.

Meteorological re-analyses are arguably one of the most widely used data sets in atmospheric research and beyond. Publications describing these data are the most cited articles in the meteorological literature. All existing re-analyses, however, are of a Eulerian nature and provide data at fixed locations. While this is perfectly suitable for many scientific studies, other research activities would benefit from a Lagrangian re-analysis that provides meteorological data along continuous trajectories. The goal of LARA is to create the first Lagrangian re-analysis of the atmosphere, based on the existing Eulerian ECMWF re-analysis, ERA-5 and the Lagrangian particle dispersion model FLEXPART (see [www.flexpart.eu](http://www.flexpart.eu)), which is the main working tool of our research group. The project will provide this new data set to other researchers, but will also use it to answer important questions, such as the characterization of extreme events in temperature, precipitation and wind speeds, the identification of moisture source regions for precipitation, and energy transport between different regions of the globe, including their anomalies, e.g., during El Niño events.

The starting date can be as early as 1 March 2020 and the duration is for four years.

**Duration of employment:** 4 year/s

**Extent of Employment:** 40 hours/week

[Job grading in accordance with collective bargaining agreement](#): §48 VwGr. B1 lit. b (postdoc) with relevant work experience determining the assignment to a particular salary grade.

### **Job Description:**

- Research in the framework of the project LARA (Demonstration of a Lagrangian re-analysis);
- Scientific publications and presentations;
- Contributions to project applications and the acquisition of third-party funding;
- Collaboration with and scientific and technical support of group members;
- Supervision of students;
- Involvement in the group and department activities.

### **Profile:**

- Doctoral / PhD degree in meteorology, physics, chemistry, or related subject;
- Good communication skills and ability to work in a team;
- Experience in programming, ideally with Fortran;
- Proven ability to publish in highly ranked international journals;
- Excellent command of written and spoken English.

Furthermore, the following skills/expertise will be an asset:

- Experience with use of atmospheric transport models;
- Experience with working with re-analysis or other meteorological analysis data;
- Expertise in statistics;

- Experience in external fundraising.

Your application should be a single PDF file that includes:

- A letter of motivation including some arguments why the research field is of particular interest;
- An academic curriculum vitae;
- A list of publications and presentations;
- A list of talks given;
- Contact information of two references;
- Degree certificates.

### Research fields:

<b>Main research field</b>	<b>Special research fields</b>	<b>Importance</b>
Meteorology, Climatology	Meteorology	SHOULD

Applications including a letter of motivation (German or English) should be submitted via the Job Center to the University of Vienna (<http://jobcenter.univie.ac.at>) no later than 31.01.2021, mentioning reference number 11683.

For further information please contact Weinberger, Stefanie +43-1-4277-53709.

The University pursues a non-discriminatory employment policy and values equal opportunities, as well as diversity (<http://diversity.univie.ac.at/>). The University lays special emphasis on increasing the number of women in senior and in academic positions. Given equal qualifications, preference will be given to female applicants.

Human Resources and Gender Equality of the University of Vienna

**Reference number: 11683**

E-Mail: [jobcenter@univie.ac.at](mailto:jobcenter@univie.ac.at)

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