universität wien
Institut für Astrophysik

University PhD assistant position in exoplanetary atmosphere simulations

We invite applications for a 3-year doctoral (PhD) position in the area of exoplanet atmospheres at the Department of Astrophysics, University of Vienna. The Department of Astrophysics with currently around 100 members is part of the Faculty of Earth Sciences, Geography and Astronomy at the University of Vienna.

Project and Tasks

We are looking for a highly motivated and talented predoctoral researcher. You will work in the Star and Planet Formation group of Manuel Güdel in the field of planetary atmospheres and their evolution and collaborate closely with the exoplanetary atmospheres group of Sudeshna Boro Saikia in the same department. You will perform simulations of upper planetary atmospheres and their loss into space, contribute to the further development of corresponding simulation code including chemical networks and link it to atmospheric retrieval.
You will profit from interactions with a lively and diverse team engaging in research on planet formation in protoplanetary and debris disks, exoplanetary atmospheres and their evolution, solar system planetary evolution, and stellar astrophysics and magnetic activity.

- We expect you to finalize your dissertation agreement within 12-18 months.
- You work on your dissertation and its completion at the end of 3 years.
- You will join the Vienna International School of Earth and Space Sciences (VISESS, https://visess.univie.ac.at/).
- You hold courses independently within the scope of the provisions of the collective bargaining agreement.

Starting date preferably in September/October 2024
Funding: 75% position (30h/week) for 3 years
Job Classification in Collective Bargaining Agreement: §48 VwGr. B1 (predoc)

Your Profile

- Completed Master's degree or Diploma in the field astrophysics or physics
- Basic knowledge of astrophysics
- Programming skills (Fortran is the main language of the project; Python, C, or C++ beneficial)
- Excellent command of written and spoken English
- Excellent abilities to work in a team and excellent communication skills

The University Offers:

- Salary: Job grading in accordance with collective bargaining agreement: §49 (3) lit. a (B1, predoc), https://personalwesen.univie.ac.at/en/jobs-recruiting/salary-scheme/

- Privileged access to the Vienna Scientific Cluster (VSC; https://vsc.ac.at/) super-computing facility.
- An interdisciplinary and international environment.
- Many opportunities for advanced learning/training.

Application Details

Please prepare your application as follows:
- a motivation letter (max. one page)
- a curriculum vitae with a list of publications and presentations (max. two pages)
- name, affiliation and email address of at least two referees (referees will be contacted directly after the application deadline)
- bachelor´s and master´s diploma and transcripts
- **Application deadline:** 07/30/2024

Link to online application including full job ad (Job ID: **2514**)
https://jobs.univie.ac.at/job/University-PhD-assistant-in-exoplanetary-atmosphere-simulations/1092160801/

If you have any questions, please contact Manuel Güdel, manuel.guedel@univie.ac.at

The University of Vienna has an anti-discriminatory employment policy and attaches great importance to equal opportunities, the advancement of women and diversity:
https://gleichbehandlung.univie.ac.at/en/
https://personalwesen.univie.ac.at/en/culture-equality/diversity/
We lay special emphasis on increasing the number of women in academic positions among the academic and general university staff and therefore expressly encourage qualified women to apply. Given equal qualifications, preference will be given to female candidates.