

Position Announcement: Researcher in the project SpongeCity

The Department of Geoinformatics – Z_GIS at University of Salzburg aims to combine high quality education with excellent research. The department has several research groups with an outstanding international reputation (<https://zgis.at/research>) and is offering a **researcher position** in the **SpongeCity** project (<https://spongecity.sen2cube.at>) with the focus on big Earth Observation data analytics.

The researcher will join an interdisciplinary team of researchers who are focused on Earth Observation and Geoinformatics.

- Start of the position: ASAP
- Duration of contract: at least 2 years (extension possible and envisaged, depending on available project funding)
- Weekly working hours: 30h
- Professional level (preferred): **predoctoral (holding a MSc degree)** with option to do a PhD

Job profile:

- Collaboration in an international research project
 - Active participation in project meetings.
 - Responsible for technical-scientific tasks in the SpongeCity project (<http://spongecity.sen2cube.at/>).
- Research in Earth observation, big EO data infrastructure, and artificial intelligence
 - Building big EO data workflows/pipelines using Sentinel-2 (and similar optical) satellite data using Python, Jupyter Notebooks, git, STAC, and workflow tools like Prefect / Apache Airflow or cloud-based geospatial tools.
 - Create and maintain (semantic) Earth observation data cubes (<https://sen2cube.at>) and conduct analysis in Python and our in-house developed Sen2Cube.at system.
 - Handling IT research environments based on Linux and Docker.
- Application context: Earth observation, Big Earth data, IT infrastructure, remote sensing

Candidates **must have a post-secondary degree** in the field of geoinformatics, remote sensing, computer science, or a related discipline. Moreover, interest in scientific work, and the ability to work independently and in teams are mandatory.

A **profound technical understanding** is a prerequisite for this position. The candidate needs to be qualified to perform state-of-the-art research with a focus on big Earth spatial data infrastructure and algorithm design. Furthermore, the candidate is expected to conceive new research ideas and support writing grant proposals.

Beyond that, **good communication and social skills** are required for working in an interdisciplinary and dynamic team as well as for conducting research. Collaboration on publications with other members of the team is expected, aiming to publish in international journals and attending international conferences.

We **offer** a friendly working atmosphere as well as remuneration according to the Austrian University collective bargaining agreement (full-time gross salary per year min. €50.103,20 based on 40 hours per week for PreDoc). We support to pursue a PhD degree based on the project work.

As an application, we expect a one-page letter of motivation, a CV, and documented previous work or experience to be sent by email to dirk.tiede@plus.ac.at. The motivation letter should include information

about the highest degree achieved (University, subjects, date). With respect to the job definition, it describes the skills and experience already available. Please indicate the possible starting day and provide a contact option by email and telephone. The documentation of previous work or experience can be a GitHub link, Master Thesis, Publication etc.

Application deadline: **Rolling admission** (applicants will be interviewed until the position is filled)

If you are interested in this position, please contact Assoc. Prof. Dr. Dirk Tiede (dirk.tiede@plus.ac.at) or by phone: +43-662-8044-7565.

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