

GAF AG is an internationally successful company that specialises in cross-platform geoinformation solutions and the development of innovative earth observation applications. In addition to receiving and procuring satellite-based earth observation data, GAF holds a leading position in the areas of data processing and geo-consulting due to its 40 years of expertise. With an international and interdisciplinary team of experts, GAF sets standards for geospatial consulting, cloud- and AI-based data analysis, and satellite-based monitoring of the environment and natural resources in Europe and around the globe.

To further strengthen our team for land cover mapping and monitoring at our headquarters in Munich, we are now looking for an enthusiastic

Junior Expert for GIS and EO-based Land Cover Mapping and Monitoring

This is an **opportunity for a recent graduate** to develop their professional skills and start their career in an international organisation. You will support us in projects in the frame of the **Copernicus Land Monitoring Service** to analyse high- and very-high resolution satellite imagery and **generate vector- and raster-based land cover/land use maps** across Europe and globally.

Our department is specialised in land use and land cover monitoring, combining both in-depth thematic knowledge and state-of-the-art EO data analytics. Our products are tailored to help decision-makers across Europe and internationally to find sustainable and future-proof solutions for the protection, management and planning of our environment.

Your tasks:

- Regional calibration and roll-outs of machine learning models for EO-based land cover classification and estimation of biophysical variables
- Creation and quality control of training and validation datasets
- Pre-and post-processing of vector and raster data
- Thematic, geometric and semantic quality control of vector and raster data, in particular of land cover/land use products
- Thematic interpretation of high and very-high resolution optical satellite imagery and derivation of high-quality products
- Collaboration within a small team, across departments and with international partners

Your profile:

- ✓ BSc / MSc degree or proven experience in a relevant subject, e.g. Geography, Environmental Sciences, Remote Sensing or similar
- ✓ Solid knowledge of GIS applications (e.g. ArcGIS, QGIS)
- ✓ Solid understanding of land use/land cover classification and change concepts
- ✓ Good understanding of remote sensing basics and knowledge of EO data processing
- ✓ Fluency in English (C1 level according to the CEFR)
- ✓ Self-motivated, independent, structured and responsible workstyle in a team-oriented environment
- ✓ Willingness and ability to learn new methodologies and workflows
- ✓ Perfect colour vision

Desirable knowledge:

- ✓ Knowledge of tropical forest ecosystems and deforestation patterns
- ✓ Experience in handling in-situ data (e.g. OSM, national datasets)
- ✓ Experience in handling large volumes of data (vector and raster data processing)
- ✓ Knowledge of the European Copernicus Earth Observation Program
- ✓ Practical experience in visual interpretation of satellite image data in terms of land cover/land use
- ✓ Basic understanding of a high-level programming language (e.g. Python, R) that enables you to read and understand basic scripts
- ✓ Hands-on experience with machine learning models is a plus
- ✓ Good command of the ArcGIS Model Builder
- ✓ Knowledge of German

What to expect:

- A responsible and varied role in one of Europe's leading geo-information companies, and insights into an exciting and technically cutting-edge work environment
- Comprehensive support in familiarising yourself with your professional role
- Training and development - because your experience and knowledge count
- A respectful, friendly and modern project working environment in a multi-national team of committed colleagues and a leadership style based on trust
- Flexible working hours and the opportunity to work from home within the framework of our regulations
- Options for temporary work from abroad depending on individual and legal requirements (workation)
- An attractive location with perfect public transport connections and great options for outdoor and recreational activities in the direct vicinity
- Various additional benefits, e.g. public transport contribution (job ticket), company pension scheme (optional), travel health insurance (worldwide), occupational health management, and much more

Further information

Full-time, 40 hours per week and starting as at the earliest possible date.

Initially limited to 2 years, with a subsequent option for a permanent contract.

Please note that only applicants with a German work permit can be considered.

Have we aroused your interest in this position?

Then we are looking forward to receiving an application from you, including a cover letter and CV together with any other useful supporting documents, and stating your (gross) salary expectation and earliest availability. Please send your application to recruiting@gaf.de, stating „**Junior Expert Land Cover Mapping**“ in the subject line.

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