

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 work permit for Germany 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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