

Data Engineer

Overview:

The successful candidate will play a critical role in enabling translation of big data into practical and decision-useful information and insights to support clients into “doing the right things” in the times of changing climate and environmental crisis. The data engineer will ensure seamless and robust workflow of raw data inputs to end products through various scientific tools and methods (i.e., referenced from established research papers) that can be scaled and customised/parameterised to client’s needs and business sector or practices.

We’re an early-stage company in a rapid growth stage, with a small but collaborative and energized team. Climate Risk Services offers advisory services alongside development of product solutions for managing climate risk, transition, and opportunity. On the advisory side, we support clients through governance of climate as a material risk issue and a regulatory compliance issue, building an understanding of how climate should factor into business and operational strategies, developing robust risk management processes and frameworks, and data-based analysis and assessment of climate risks for markets, investment, or lending portfolios, and at the asset-level. On the product development side, we are building exciting platform-based enterprise level solutions to support our clients in embedding climate into strategic and financial decision-making. We’re focused on turning climate data science into actionable insights, bridging the gap between climate science and financial and operational decision-making.

What you’ll be doing:

You will source, maintain, and process climate related data to transform them into our decision support elements for transition, adaptive capacity building, and risks management. These products include scientifically based, intuitive and practical decision support scores, information, and visualisation to align client into a climate responsible and resilient business practice.

Together with our data scientist/analyst and front-end developer, you will ensure the smooth and robust data and information workflow for the product development

Some of your responsibilities will include:

- Managing climate-related big data repository, including the upkeep of the metadata and documentation, versioning (such as git) and bug reporting.
- Write report summary and workflow for the products developed.
- Developing and managing data workflow from raw inputs to modelled outputs and products for visualisation and build pre- and post- processing routines when necessary.
- Develop workflow/ output data verification/ error check routine.
- Assist and collaborate closely with peers of our in-house science team and research institute partners to develop/implement new climate risk and opportunity software products.
- Assist and collaborate closely with peers to evaluate the data workflow, codes, and products.

What we're looking for:

We're looking for someone who is a high-performing team player who takes initiative, is detail-oriented and well structured, transparent & honest, has a collaborative and 'learning' approach, is action and result-oriented. Workflow sustainability matters to you and recognising and learning together from mistakes is something you value.

It is important to have data processing and coding practical experience, and it would be an advantage to have experience working with climate data, or in energy and/or carbon. Here's a few of our requirements:

- Minimum bachelor's degree in computer science, information technology, engineering, computing oriented geoscience or a relevant field with proven portfolio/ big data handling experience. A MSc degree would be an advantage.
- Working knowledge of scripting Python, Bash, and/ GIS database system (optionally R).
- Experience in Geospatial and Temporal Data & GIS Software (e.g. QGIS)
- Python data processing & mapping tool: Xarray, Pandalas, GeoPandalas, Rasterstats, Xclim, Fiona, Rasterio, Cartopy, etc.
- Working familiarity with the following file formats: NetCDF, HDF5, GeoTIFF, GeoJSON, XML, ISO 19115 metadata standards
- Experience in GIT deployment and documentation (GIT-LFS is an advantage)
- Enjoy reading scientific papers and translating this to practical application
- Cheerful, motivated, proactive, love to work in a team and able to collaborate effectively with members in different geographical locations.

Ideally, you will also have skills and experience in one or more (or a blend) of following areas:

- Knowledge of Google Earth Engine
- Knowledge of Machine Learning e.g. DL, ANN, Random Forest, etc.
- Code testing framework (e.g. pytest)
- Geoscience/ Climate Hazards/ Energy/ Ecology/ Environmental Impact Assessment

What we offer:

The opportunity to be at the forefront of climate risk management and climate focussed impact. You'll be in at the ground level of building something exciting and with significant growth potential, in a topic area that is accelerating in importance. You'll also get:

- Variety. Spend 80% of your time on your primary role and 20% contributing to other projects and initiatives, to build your experience and add your unique value across the company.
- Development. We'll build your skills and knowledge of climate, from mitigation through adaptation and into risk management; both internally and externally.
- Exposure. We're a small company, so you'll see inside everything from setting strategic goals for the year through to building products from the ground up.
- Growth. We're growing, and so will you. Significant potential to step up in role and responsibility as our growth accelerates, while developing into a subject matter expert.
- Excitement. You'll be part of a fun, informal, and collaborative team that is excited and passionate about the work we do and the potential we see.

Compensation will be commensurate with experience and ability to add value. In addition to salary, we offer a performance-based bonus, flexible working options, 25 days holiday annually.

Location

Preference for candidates to be located in either Utrecht, Netherlands or London/Oxford, United Kingdom. Please include a statement on whether you have right-to-work in either/both countries.

Diversity & Inclusion



Climate Risk Services believes that diversity is critical to achieve our goals of innovation and building value for our clients. All applications will receive consideration for employment without regard to ethnicity, religion, gender, gender identity or expression, sexual orientation, nationality, disability, age, or social background.

How to Apply

Send a cover letter and your CV and optionally link to your git repository/ portfolio to careers@climateriskservices.com with subject line, "Application for Data Engineer Role". Applications will be reviewed on a rolling basis.