



Job description

Python / Full Stack developer

Fixed-term contract (CDD) : **12 months**

Start date : **September 2023**

Context

POKaPOK is a SCOP ARL (cooperative company) founded in 2021 by Jérôme Gourrion and Virginie Racapé. Its main activities concern physical and biogeochemical oceanography. Its funding comes mainly from European projects for monitoring the state of the planet and climate research, in particular concerning the qualification, calibration, validation and analysis of in-situ observations → *further information on <https://www.pokapok.org>*

Missions

In order to help its scientists in their tasks of qualifying, calibrating, validating and analyzing these observation data, POKaPOK is developing a generic data model, ingestion procedures, visualization tools and workflow automations. To do this, we need a software developer who can work on our new projects as well as on the refactoring of existing projects. You will be responsible for developing software libraries for storing and manipulating oceanographic data, in coordination with the project manager. The main language used will be Python, also casual R usage. You will follow the provided specifications, propose improvements and be in constant interaction with the scientific and development teams in order to build robust and reusable components.

Conditions

The salary will be between €25.6k and €33k depending on skills and seniority, in line with the Cadre status of the Syntec collective agreement for consultancy firms. You will work a fixed day rate of 211 days per year (i.e. approximately 42 days of rest or holiday). Partial teleworking will be possible. Pokapok fully covers the cost of health insurance ("Quiétude" contract with the Mutuelle des SCOP et des SCIC).

Profile

Junior to advanced profile applications accepted.

Development skills

Languages

- Bash script
- Python
- R
- Julia (optional)
- Matlab / Octave

Python Web Full Stack

- Object Classes
- API development (FastAPI / uvicorn ASGI)
- ORM SQLAlchemy + alembic -> postgresql
- Datastax python driver -> cassandra

Databases

- postgresql (postGIS)
- Cassandra
- MongoDB

Déploiement

- Docker / singularity containers building
- Gitlab CI

Technical development.

- Git collaborative source control
- unit tests, non regression tests, ...
- event driven programming
- parallel computing / clustering

How to apply

If you are interested by working with research team and developing tools to improve oceanography and environmental data in front of the sea please contact us @ : gerance@pokapok.org

Material

Keywords

developper, python, oceanography, database, argo, profiler, software, engineer, programmation, query, R, matlab, javascript, object programming

Ressources

Development standards

<https://www.ogc.org/standard/wps/>

<https://www.unidata.ucar.edu/software/netcdf/>