

## **Python Developer / Aspiring Data Scientist**

TechWorks Marine is a provider of oceanographic equipment and services in the private and public sectors internationally. Founded in 2002, we specialise in the integration of real-time marine monitoring equipment and sales/rental of a wide range of metocean (meteorological and oceanographic) sensors and instrumentation. Our integrated products are based around the TechWorks Marine Black Box (TMBB) data acquisition and transmission systems. We also offer full integration, installation, survey, technical support and data management services to our clients to support them through the life-cycle of their project. Client sectors include Coastal Engineering, Marine Renewables and Research.

### **Qualifications, Experience and skillset required**

Applications are invited for a Python Developer with commercial sector experience.

As a valuable member of a small team you will be principally involved in development and maintenance of our environmental data processing systems.

You will also work closely with our remote sensing team.

You must be a team worker, possess good communication skills and be able to work to deadlines. The position also involves a degree of flexibility.

### *Duties will include:*

- Design, development and maintenance of systems for processing and analysing earth observation (satellite) data sets and in-situ datasets.
- Management of big datasets, researching and utilizing modern technologies, that solve problems related to environmental big data processing and storage.
- Collaborating with remote sensing team on exciting research projects for European Space Agency and other clients.
- Collaborating with web development team on integration of satellite and model datasets in web applications.

### *Essential skills and technologies:*

- Bachelor's Degree or higher in Computer science or similar discipline
- Python, Unix/Linux shell
- Data science libraries: NumPy, SciPy
- Comfortable with object oriented programming in Python, knowledge of essential design patterns and "pythonic" coding style.
- Version control (Git, GitHub, GitLab)
- Good communicator, with an ability to communicate successfully to a variety of audiences including technical documentation
- Possess high level writing skills, and be prepared to assist in the development of proposals;

- Effective team player
- An ability to meet project milestones.

*It would be an advantage to have:*

- Experience with geospatial tools in python
- Experience with satellite datasets/products
- Experience with other data modelling languages like IDL, MATLAB, Fortran
- Experience with supercomputer environment and massively parallel processing
- Experience with machine learning algorithms

The position will be based at our offices in Dublin, Ireland. Benefits include 23 days annual leave, and competitive salary, great working environment.

Please send CV's and Cover Letters to Charlotte O'Kelly, by email: [jobs@techworks.ie](mailto:jobs@techworks.ie).

TechWorks Marine is an equal opportunities employer.