**JOB DESCRIPTION**

**JOB ROLE: Junior Data Engineer**

**JOB HOLDER: TBC**

**JOB PURPOSE:**

Through the development of scripts, automated workflows and effective database design the Junior Data Engineer provides the tools and services to streamline the flow of data, through the acquisition, archiving and publication processes.

**Essential experience/skills/qualifications:**

* Experience in Data Science, Data Engineering, and/or IT sector, or other related discipline
* Experience with Python scripting language
* A basic knowledge of data management
* Demonstrable traits in attention to detail and conscientiousness
* Experience of using databases to extract, transform and load data
* Understanding of Linked Open Data approaches and associated standards

**Desirable experience/skills/qualifications:**

* Proven ability with relational and flat databases
* Experience in developing, maintaining, and supporting data pipelines for large-scale data infrastructures such as MEDIN (Marine Environmental Data and Information Network) and OBIS (Ocean Biodiversity Information System)
* Awareness of data standards and protocols relevant to marine data (e.g., ISO 19115, Darwin Core)
* Database design and systems modelling
* Knowledge of marine (meta)data standards
* Experience with data integration, transformation, and ingestion frameworks for scientific data systems
* Familiarity with cloud-based data storage solutions and distributed computing frameworks

**Key responsibilities and skills:**

* Innovate technical solutions to data management challenges
* Development of code and services to support data flow, including integration with MEDIN and OBIS data infrastructures
* Support for underpinning databases and operating systems
* Support/liaison for the development of CPR Survey Data Infrastructure
* Collaborate with external stakeholders to align data architectures with MEDIN and OBIS standards
* Develop and maintain data pipelines, ETL processes, and APIs for seamless data sharing and accessibility
* Contribute to relevant Data Team contracts
* Undertake additional, relevant Data Team tasks as required

**Interactions:**

Interactions with MBA Data Officers, DASSH data providers, MBA research groups, CPR Survey.

**Scope of role:**

Data automation, script development, database management