**Job Description**

**Role title: Senior Environmental Data Analyst**

**Reports to: Principal Consultant**

**Grade: Senior**

**Sector: Water**

**Division:** **Water Science**

**Purpose / Scope of role**

APEM has an excellent opportunity for a full-time, permanent Senior Environmental Data Analyst to join it’s growing in-house Water Data Science Team.

Freshwater ecology has been established as an area of APEM expertise for many years and our Water Data Science team specialises in the cutting-edge collection, analysis and interpretation of hydro-ecological, water quality and catchment data. We are passionate about using data to develop evidence-based solutions that allow businesses to better manage their environmental risks and impacts. We take pride in providing impartial, trusted advice to our clients and finding innovative ways to tackle some of the biggest environmental challenges of our time, with a particular focus on balancing environmental and socio-economic needs for water.

Our specialist team of environmental data analysts and statisticians work closely with domain knowledge experts to support clients across the water, energy and environment sectors. We have an established reputation for undertaking high quality research and are the UK industry leaders in the development and application of hydro-ecological models to assess and manage the impacts of abstraction, pollution and habitat modification on river ecosystems.

**What success looks like in this role**

As a Senior Environmental Data Analyst, you will manage and deliver a portfolio of projects for the UK water and energy industries, and their environmental regulators.

With a commitment to sound science and rigorous quality assurance, you will apply your technical skills to process and analyse environmental monitoring datasets, undertake data-intensive research projects, and develop and apply predictive statistical models. Working closely with other technical experts in freshwater ecology, water quality and hydrology, you will interpret results to help solve client’s problems, and communicate outputs via reports, dashboards, meetings and workshops.

As a highly-organised and self-motivated analyst, you will have a passion for data, an eye for detail, and enjoy working collaboratively to find creative and efficient solutions to clients’ problems. Working both independently and as part of multi-disciplinary project teams, you will be able to apply your skills within a fast-paced commercial consultancy environment, and have a proven ability to successfully manage and deliver projects to time, budget and quality.

Through a combination of training, mentoring and on-the-job learning, you will keep abreast of the latest developments in data science and hydro-ecology and demonstrate a commitment to ongoing personal development.

**Key Responsibilities**

* To manage and deliver data-intensive consultancy projects to time, budget and quality.
* To collate, clean, process and analyse diverse environmental datasets.
* To apply and interpret statistical and machine learning techniques.
* To communicate results to clients via reports and presentations.
* To liaise with clients to plan projects, organise meetings and report progress.
* To follow good practice in data management and analytical work flows.
* To develop new and improved processes and tools for managing, visualising and analysing data.
* To support and mentor junior data analysts.
* To provide technical and commercial support to the preparation of tenders and proposals.
* To carry out any additional activities that may be reasonably required or requested.
* To take reasonable care for the health and safety of yourself and others; make use of the tools, equipment, training and resources; and actively engage with colleagues at all levels to contribute to the continuous improvement of health and safety management.
* To complete mandatory health and safety training modules and any that are specific to your role.

**Skills/Knowledge/Experience/Qualifications**

**Essential**

* BSc or MSc degree in a relevant subject, and either a PhD or three years professional work experience in an analytical role involving management, analysis and interpretation of environmental datasets.
* Proficiency with MS Excel, R programming, and version control using Github.
* Experience analysing and modelling spatio-temporal data using statistical and/or machine learning techniques.
* Ability to manage and deliver projects on time, within budget and to agreed quality standards.
* Awareness of UK policy, legislation and issues relating to freshwater ecosystems.
* Strong creative problem-solving, organisational and analytical skills.
* Excellent technical report writing skills.
* Ability to communicate professionally and effectively with clients and colleagues.

**Desirable**

* Experience working in a commercial consultancy environment.
* Experience of preparing proposals and tenders.
* Experience with geospatial data (ArcGIS, QGIS) and databases (SQL).
* Membership of a relevant professional body.
* A valid driving licence.

**Our Values**

Our most important assets are our people who work for the firm. We all work as one team and rely on each other. We wish to create a working environment to which our people are proud to belong, by maintaining our values at the forefront of everything we do. These values are:

* Integrity – We do the right thing
* Quality – Quality in everything
* People - We care
* Forward thinking – We focus on the future
* Positivity – We believe we can
* Fairness – We champion equality

**Our WOW Factor**

When home became work, we learned that flexibility, understanding and balance allowed us all to move forward and grow together. So, no matter where you’re based, the hours you keep, the toddlers you have to entertain, or outside interests that help with your wellbeing we’re committed to our Ways of Working (WOW) with each other so we can continue to be our best.

**You belong**

We recognise that everyone’s story is different. The opportunities, experiences and challenges faced in life shape who we are, and we understand that these are the things that make us individual and unique. Embracing our differences means we’re able to approach what we do from every angle.

Inspiration and insight can come from anywhere, and no matter your history or choices in life, we empower our people to be their best, so we can be our best, together. **We welcome the whole you.**