

Data Scientist



SuSeWi Ltd

Location:	London
Salary:	£30,000 to £45,000 depending on qualifications and experience
Hours:	Full Time
Contract Type:	Permanent
Job Reference:	AG4

About Us:

SuSeWi is a research and development company who has developed and tested a patented methodology to grow wildtype microalgae at scale, in controlled, land-based open raceway ponds, using free inputs such as Sun-Sea-Wind (hence Su-Se-Wi). Our London laboratory promotes interdisciplinary research between biology, chemistry, and engineering; with the aim to better understand the effects of environmental factors on algal physiology, productivity and stoichiometry. The research is relayed back to our production facility in Morocco to improve pond operations and enhance product yields.

About the Role:

We're recruiting a Data Scientist to help work on our existing research projects, initially focusing on AGRI-SATT (Agricultural Growth using Remote-sensing, IoT, Satellite and Autonomous Telecommand Technology), which is funded by Innovate UK. The aim is to combine newly available, high-resolution spatial and temporal satellite data with key environmental and algal productivity data to create an effective, scalable, protein and food production method on desert land. The project is led by SuSeWi and includes the collaboration of academic partners (SAMS and Southampton University) and subcontractors (Environmental Systems, BSC Global and Feed Algae Maroc). The job will involve working closely with our laboratory team and project partners to collect, store and archive all data in a well-structured and comprehensive repository; and then to analyse various biological, meteorological, oceanographic and satellite-based data feeds for potential correlations.

Responsibilities:

Data management: manage incoming data streams from our Lab, Moroccan site as well as project partners.
Data interpretation: design analytical workflows and build and disseminate insights via reports and presentations.
Data curation: error correction, seeking outliers, managing and planning cloud uploads of curated, annotated and labelled data
Statistical analysis: application of standard statistical tests to determine significance and quality of data
Equipment: assist in determining sensor specifications for lab and field deployment, organising installation, forming data collection pathways and organising training for maintenance personnel.
Seawater Sampling Program: coordinate with the Moroccan team to manage an offshore sampling program; collect, store and analyse cast data.
Apprentices: organise work activities for apprentices, monitor training and work-related responsibilities.

Education, Training & Qualifications:

Min BSc in Biostatistics, Epidemiology, Statistical Genetics, Translational Omics, Data Sciences or related subject	Essential
Experience and knowledge in designing/implementing complex data solutions	Essential

Excellent understanding of RDBMS; Proficiency in using query languages such as SQL	Essential
Experience working with a wide range of data formats and data-sources	Essential
Experience with Microsoft Azure services (or other Cloud services)	Essential
Experience building data pipelines; automation skills	Essential
Python; GIS; working with biological data; extracting/analysing geospatial data	Desirable
Familiarity with Spark for data processing	Desirable
Familiarity with data governance (process auditing, cataloguing, access management, retention period definition and archiving)	Desirable
Experience with LIMS, electronic lab notebooks and cross-platform data management	Desirable
Experience with data visualization tools such as Power Bi, or Python and relevant languages	Desirable
Experience and knowledge of microalgal or plant biology	Desirable

Specific Skills & Abilities:

Great organisational and problem-solving skills	Essential
Ability to prioritise and multitask	Essential
Proactive and can work independently and within a team	Essential
Manage relationships with service providers and project partners	Essential
Ability to effectively communicate and present findings (written and oral)	Essential
Willingness to occasionally visit our Moroccan production site – COVID permitting	Essential

The position is available at the earliest convenience. We offer standard pension contribution, holiday entitlement, and other optional benefits such as private healthcare. Please apply by submitting your CV and a Cover Letter to Raffael Jovine (raffael@susewi.life) and Toby Boatman (toby@susewi.life)
