MARINE MONITORING DATA ENGINEER
Fulltime – Namibia

Starting date: 16 October 2023
Application deadline: 29 September 2023

ABOUT KELP BLUE

At Kelp Blue, we're developing long-term solutions to help restore marine ecosystems, lock away CO2, create sustainable products and have a positive impact on communities. We plant giant kelp forests around the globe and, just like our seaweed, we're growing quickly.

Kelp Blue is not a 'business as usual' company. We're here to make a difference. We're a lean team and we all roll up our sleeves to get the job done, whatever it may be. We look for collaborative team players, people who are results-driven and have a bias for action. And because some of the things we're trying to do have never been done before, we're looking for people who have a healthy dose of common sense, who are problem solvers by nature, and are great at lateral thinking.

We measure our success by having impact, and we put 4 'Returns' at the heart of what we do. These are:
- **Inspiration**; we inspire people to be better and we pioneer change on an epic scale
- **Nature**; we improve planetary health and create marine ecosystems that increase and support biodiversity
- **Social**; we work to ensure we have an outsized positive social impact wherever we operate
- **Finance**; we drive world class shareholder returns to scale our business and impact

ABOUT THE ROLE

As a Data Engineer at Kelp Blue, you will be instrumental in the efficient and accurate collection, storage and processing of marine data. With your expertise in marine data management, you will streamline and enhance our data management to achieve the Marine Monitoring team's goals: (1) define preventative farm maintenance needs, (2) predict kelp quantity and quality, (3) present the data needed to develop blue carbon methodology, (4) support our claim of re-wilding the oceans and (5) environmental clearance certificate compliance.

RESPONSIBILITIES

- Oversee and contribute to input of relevant Marine Monitoring data into the developing data management project database.
- Be responsible for quality assurance of data flow design, ensuring thorough control and improvement of input processing and reporting across the team.
- Develop and maintain Standard Operating Procedures (SOPs) for data treatment and providing training to team members thereof.
- Take the lead in building local capabilities, concerning, maintenance and improvement to data architecture and sustainable data flows, to enhance overall performance and efficiency.

- Contribute to and maintain a scalable data architecture on MS Azure for a user-friendly data warehouse.
- Streamline workflows by automating data transfer processes and oversee end-to-end analytics, with eventual automated outputs (i.e. in the form of dashboards and interactive mapping tools), generating actionable insights for informed decision-making, as well as contributing to EMP and other reporting requirements.
- Support the conversion of drone footage, satellite imagery and acoustic data into quantifiable metrics for use in ecosystem monitoring, kelp biomass determination and structural monitoring.
- Support the development and maintenance of predictive models for kelp quantity and preventative maintenance, leveraging collected data to facilitate proactive decision-making and planning.
- Drive collaboration with/ use of suitable ecology databases (OBIS, WORMS, etc.), enabling effective push of pull of data to bolster the KB ecology database.
- Innovate data capture via partnerships with 3rd party or in-house development of offline applications for in-situ marine ecology and water quality data capture.
- Stay abreast of the latest advancements in data management systems and analysis, actively engaging in research and adopting best practices for continuous improvement.
- Investigate computer vision analysis techniques to extract valuable insights from captured footage for research and development purposes.

SKILLS & QUALIFICATIONS
- Experience with relational database (SQL is advantageous)
- Experience with Azure or other Cloud platforms is advantageous
- Experience with creating dashboards using Power BI
- Experience with Python is advantageous
- Interest in geospatial data and the marine environment
- Adept knowledge of Microsoft office applications (Word, Excel, PowerPoint)
- Happy to conduct routine and administrative tasks relevant to work scope
- Detail orientated and meticulous in daily activities

ATTRIBUTES
Working at Kelp Blue is about much more than being good at your job. It's about having the right mindset, being comfortable with the uncomfortable, and about always pushing to be the best. So, in addition to the skills we outline above, we want candidates who can demonstrate:

- A "can do, will do" approach
- Flexible and lateral thinking/problem solving
- Personal responsibility and self-reliance
- Grit and determination, a willingness to learn from mistakes
- A commitment to always working in the company's best interests
- A passion for our 4Rs and a determination to make a difference, *to leave things a little better than you found them*

BENEFITS
- Competitive salary
- Opportunities to work on projects in different geographical locations
- Medical aid insurance under the Kelp Blue NMC scheme
- Being part of a highly ambitious, collaborative, flexible and multinational team
- Exposure to many different stakeholders
- Knowing that you are helping to make the difference
- The opportunity to attend industry conferences, participate in training programs, and collaborate with leading experts in the field

Please send an email and CV to newkelpies@kelp.blue with **MARINE MONITORING DATA ENGINEER** in the subject line by **29 September 2023.** Please use the email to tell us about how you fit the Kelp Blue profile, what you can bring to our mission, and why you are the perfect candidate. Please do not hesitate to apply if you don't possess every single skill & qualification.