WWF Singapore
354 Tanglin Road #02-11
Tanglin International Centre
Singapore 247672

Tel: (65) 6730 8100
Fax: (65) 6730 8122
info@wwf.sg
wwf.sg

JOB DESCRIPTION

Position title: Data Engineer (Supply Chain Traceability)
Reports to: Chief, Strategic Communication and External Relations
Start Date: Immediately
Duration: 10 months contract

Technology is rapidly developing, and its potential use cases for conservation are immense. Are you interested in addressing important conservation issues through technology? Are you experienced in data visualisation and good applied statistical skills? If yes, we are looking for someone experienced and passionate like you to achieve a tech-focused solution to help put a stop to deforestation!

Major Functions:

Unsustainable palm oil supply chains in rural Indonesia are fraught with illegality and deforestation. We are leading a technology-focused initiative to end illegal deforestation as efficiently as possible in two of the world's most important forests for biodiversity – Tesso Nilo National Park and Bukit Tigapuluh in central Sumatra, Indonesia.

Together with multiple palm oil experts based in WWF-Singapore and WWF-Indonesia, you will support this fast-paced, high-impact initiative and work dynamically in a team of five. In this project, you will help us change the way palm oil supply chains are managed through the use of data and technology. Our end goal is to end illegal deforestation in the palm oil industry. The team will be based in Singapore, and will require frequent travels to Sumatra.

Major Duties and Responsibilities:

- Build scalable, highly performant infrastructure for delivering clear business insights from a variety of raw data sources.
- Develop batch & real-time analytical solutions, prototypes, and proofs of concept for selected solutions.
- Implement complex analytical dashboards with a focus on collecting, managing, analyzing, and visualizing data.
- Build frameworks and tools to empower our data scientists and analysts.
- Be in constant communication with team members and other relevant parties and convey results efficiently and clearly.
- Design and develop mapping tools

Required qualifications:

- Minimum 5 years of relevant experience
- Experience with data visualisation tools, such as D3.js, GGplot, etc.
- Experience working with geo/map based data
- Experience with NoSQL databases, such as MongoDB, Cassandra, HBase
- Good applied statistics skills, such as distributions, statistical testing, regression, etc.
- Excellent understanding of machine learning techniques and algorithms.

- Familiarity with GCP or AWS (e.g. GCS and BigQuery) is a plus.
- Good scripting and programming skills
- Any experience with NodeJS is a plus

You need to:

- Be a self-starter with high level of driven
- Be able to work independently
- Have great organisational skills, attention and dedication to details
- Experience with working in small teams
- The ambition to develop well written and designed software
- Be comfortable with frequent travel
- Adhere to WWF's values, which are: Knowledgeable, Optimistic, Determined and Engaging

This job description covers the main tasks. Other tasks may be assigned as necessary according to organisational needs.

Interested candidates should email a CV and a cover letter with the title "Data engineer (Supply Chain Traceability)" to hr@wwf.sg.
Deadline for applications: 31 October 2018

About WWF-Singapore
WWF is one of the world's largest and most respected independent conservation organisations. Our mission is to stop the degradation of the earth's natural environment and to build a future in which humans live in harmony with nature.

As one of WWF's international hubs, the WWF-Singapore office supports a global network spanning over 100 countries. We help protect Singapore's essential needs through the actions of individuals, businesses and governments in the region. To meet key conservation goals, we address issues such as deforestation, haze pollution, food security, sustainable consumption and illegal wildlife trade.