



VANUATU BUREAU OF STATISTICS
Ministry of Finance and Economic Management
PMB 9019/Port Vila, Vanuatu

BUREAU DES STATISTIQUES DE VANUATU
Ministère des Finances et de la Gestion Économique
SPP 9019/Port Vila, Vanuatu



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ADVERTISEMENT NOTICE

The Vanuatu Bureau of Statistics (VBoS) within the Ministry of Finance and Economic Management is seeking to recruit a qualified **Consultant** for the **“Vanuatu Data Science Driving Innovation in Climate Change and Natural Disasters” Project**. The position is on a **Contractual Basis** for a period of **15 Months**.

The purpose of this project is to significantly enhance the capacity of staff to utilise machine learning (ML) models for the analysis of satellite imagery, focusing on monitoring the gradual, slow-moving impacts of climate change including sea level rise, coastal erosion, extreme weather events, temperature and precipitation patterns, vegetation and land use changes, ocean temperature, drought and water resources, mangrove & reef health, and inundation and flooding.

Essential Experience and Qualifications Required:

- Advanced degree (Master’s or Ph.D.) in Computer Science, Data Science, Environmental Science, Remote Sensing, Geospatial Science, Climate Science, or a related field.
- Extensive experience in machine learning, including the development, training, and deployment of machine learning models.
- High proficiency in programming languages commonly used in machine learning and data analysis (e.g., Python, R).
- Experience with machine learning frameworks and libraries such as TensorFlow, Keras, PyTorch, or Scikit-Learn.
- Strong background in remote sensing and the analysis of satellite imagery.
- Experience in processing and analysing data from various satellite sensors (e.g., Landsat, Sentinel, MODIS).
- Experience in applying remote sensing and machine learning techniques to monitor and analyse these impacts.
- Strong communication skills, with the ability to explain complex technical concepts to non-technical stakeholders.
- High proficiency in Geographic Information System (GIS) software such as QGIS, or similar tools.
- Familiarity with cloud computing platforms (e.g., AWS, Google Cloud, Azure) and their applications in processing large datasets.



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The position is open to both local and overseas based Consultants. Interested Individuals and Organisations are asked to submit their **Application** and a **Concept Note** based on the

Terms of Reference (TOR) of this position to highlight their programme of building the capacity of the Vanuatu Bureau of Statistics in Machine Learning and Satellite Imagery for Climate Change Monitoring and Disaster Preparedness. Both males and females are encouraged to apply.

For a copy of the **Full Terms of Reference (TOR)** or further information regarding this position; you can contact Mr Hugo Pigott at the Vanuatu Bureau of Statistics on telephone: +678 33040 or email: hpigott@vanuatu.gov.vu

All **Applications plus Concept Notes** can be emailed to Mr Hugo Pigott on email address: hpigott@vanuatu.gov.vu or submitted in person at the Vanuatu Bureau of Statistics addressed:

*Chief Statistician
Vanuatu Bureau of Statistics
Ministry of Finance & Economic Management
PMB 9019
PORT VILA*

Closing date: Thursday 6 June 2024, at 4:50pm (Local Port Vila time [GMT +11])