## Job Advertisement

# RESEARCH ASSISTANT/ASSOCIATE POSITION (1 POSITION)

## Geospatial Data Scientist to Support Sustainable Solar Energy Planning In Indonesia

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| **Vacancy ID** | : **2666** |
| **Location** | : Pontianak, Indonesia |
| **Department** | : Department of Engineering |
| **Vacancy terms** | : Full-time fixed term contract for 24 months |
| **Salary details** | : **Rp 299,000,000.00 (IDR) to Rp 356,000,000.00 (IDR)** per annum (Depending on the level experience and qualifications) |
| **Hours per week** | : 40 |
| **Advert closes on** | : **10 February 2026 (10:00 GMT)** or after filling the vacant positions. |
| **Expected start of contract** | : 15 March 2026 or at the earliest convenience. |

## About the Role

In this role you will join the team of researchers at the University of Leicester (UK) and the Politeknik Negeri Pontianak (Indonesia) committed with the research project "**An integrated GIS–MCDA sentiment approach for boosting Indonesian PV electrification of islanding villages**" (SolarIsland). The grant is funded by the UK Department for Business, Energy and Industrial Strategy and the Indonesian Ministry of Higher Education, Science and Technology (Kementerian Pendidikan Tinggi, Sains, dan Teknologi), and delivered by the British Council's Research Collaborations Programme Project No 2666 Ruiz Rondan Indonesia.

This specialized post involves using an advanced Geospatial technology, Geographic Information Systems (GIS), Computer Science, Multi-Criteria Decision Analysis (MCDA), Artificial Intelligence/Machine Learning (AI/ML), or Natural Language Processing (NLP) framework to support sustainable solar energy planning in Indonesia. You will develop and integrate an advanced GIS, MCDA, NLP framework to support sustainable solar energy planning. You will implement GIS-based spatial analyses related to solar energy potential, land-use constraints, and protected areas. You will Support the development and testing of Natural Language Processing (NLP) pipelines for sentiment extraction and geospatial tagging. You will assist in integrating environmental, technical, and social datasets into an existing GIS platform (SolarBoost - https://solarboost.elektro.polnep.ac.id/index) built in web-ArcGIS. You will prepare visualisations, and analytical outputs for decision support and contribute to technical documentation and draft sections of future reports and scientific publications.

You will be based in **Politeknik Negeri Pontianak** (Indonesia), and you might be required to attend formal meetings with stakeholders at West Kalimantan, and travel to the UK for a maximum of two weeks per year (all expenses will be covered). Exceptional candidates will benefit of an extra relocation package.

You will report to Dr Harold S. Ruiz who is lead investigator at the University of Leicester, and Dr Mariana Syamsudin who is lead investigator at the **Politeknik Negeri Pontianak**.

## About you

With a Master or Doctorate level qualification (or equivalent Industry or relevant sector experience) in Geospatial Data Scientist, Geographic Information Systems, Computer Science, Physics, Engineering, Multi-Criteria Decision Analysis (MCDA), Artificial Intelligence/Machine Learning (AI/ML), or Natural Language Processing (NLP) or any other relevant subject, you will be at the forefront of Energy Research for the deployment of Solar Energy in Indonesia. Experience in Geospatial and GIS data processing in GeoTIFF or AAIGRID (Esri ASCII Grid) formats is essential. Experience in GIS computational platforms such as ARCGiS, QGis, ArcGIS, or any other relevant language is essential.
Experience of developing models or adapting existing models using scripting languages is desirable.
Good written and spoken English proficiency is essential. Good written and spoken Indonesian proficiency is desirable.

## Application Instructions

Your application package consists of a motivation letter (max. 2 pages), detailed CV with relevant experience and education demonstrating your alignment with the essential requirements, list of publications if applicable, contact details of two referees willing to provide reference letters, and transcripts of grades from under-graduate and graduate programs. State in your motivation letter if you have any notice period to be considered. You must also state your levels of written and spoken English in your CV as Bad, Acceptable, Good, or Excellent. Any past English test that could be provided as evidence must be included.

Applications should be submitted via electronic mail to the following contacts:

Dr Harold S. Ruiz, dr.harold.ruiz@leicester.ac.uk
Dr Mariana Syamsudin, mariana@polnep.ac.id

## Additional Information

For informal enquiries, please contact Dr Mariana Syamsudin, mariana@polnep.ac.id

We anticipate interviews during week commencing 23 February or earlier.

Leicester is a leading University committed to international excellence, world-changing research and high quality, inspirational teaching. We are strongly committed to inclusivity, promoting equality and celebrating diversity among our staff and students. You will develop your career in a supportive and collaborative academic environment as part of one of the world's leading research-intensive universities, elite in the excellence of our research, yet distinctive for the genuine synergy between our research and teaching.

In return for your hard work, we offer a working environment that is committed to inclusivity, through promoting equality and valuing diversity. We offer a quite competitive salary package based on your level of

expertise and in accordance with the Indonesian Finance Ministry Regulation No. 32 year 2025 and Politeknik Negeri Pontianak.