

## Job Advertisement

### RESEARCH ASSISTANT/ASSOCIATE POSITIONS (3 POSITIONS)

#### Geographic Information Systems (GIS) for the planning of energy systems

**Location:** Pontianak, Indonesia  
**Department:** Department of Engineering  
**Vacancy terms:** Full-time fixed term contract for 12 months  
**Salary details:** Rp 184,000,000.00 (IDR) to Rp 277,000,000.00 (IDR) per annum  
(depending on the level experience and qualifications)  
**Hours per week:** 40

**Advert closes midnight on:** 10 March 2019 or after filling the vacant positions.

**Expected start of contract:** 15 April 2019

#### About the Role

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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 “Boosting solar energy capacity of Indonesia without compromising protected areas: an integrated GIS tailoring solar energy resource and local information” (SolarBoost).

This project is supported by the Institutional Links grant 413871894, under the Newton Fund Indonesia partnership. The grant is funded by the UK Department for Business, Energy and Industrial Strategy and the Indonesian Ristekdikti (Kementerian Riset Teknologi, dan Pendidikan Tinggi - Ministry of Research, Technology, Higher Education), and delivered by the British Council.

This specialized post involves using spatial databases and Geographic Information Systems (GIS) to set land routes and policies for the deployment, integration, and optimal use of solar energy, without the deforestation or invasion of land protected areas.

You will develop an integrated Geographic Information System for an accurate setting of surface solar irradiance maps (SSI) provided by the World Bank Group and other GIS and satellite raster databases, merging local sources of information provided by our stakeholders, which will enable the further consideration of vulnerability zones. You will be involved with the collection, digitalization, and processing of GIS data. You will provide decision tools for government and industry sectors, aiming the planning of large-scale solar power plants in the West Kalimantan area (Indonesia). You will be responsible for maintaining large datasets and both assist or lead in the production of scientific and technical reports.

You will be based in Politeknik Negeri Pontianak (Indonesia), and you might be required to attend formal meetings with stakeholders and travel to the UK for a maximum of two weeks (all expenses will be covered).

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

## About you

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With a Master or Doctorate level qualification in Geographic Information Systems, Computer Science, Physics, Engineering or any other relevant subject, you will also have relevant professional experience. Experience in 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 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

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The application consists of a motivation letter (max. 2 pages), CV (with detailed list of courses related to mathematics, GIS, and image processing), 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. You must 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 into the submission package.

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

Dr Harold S. Ruiz, [dr.harold.ruiz@leicester.ac.uk](mailto:dr.harold.ruiz@leicester.ac.uk)

Dr Alfeus Sunarso, [alfnarso@yahoo.com](mailto:alfnarso@yahoo.com)

## Additional Information

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For informal enquiries, please contact Dr Harold Ruiz on [dr.harold.ruiz@leicester.ac.uk](mailto:dr.harold.ruiz@leicester.ac.uk)

We anticipate that interviews during week commencing 11 March 2019

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. 33/PMK.02/2016 and Politeknik Negeri Pontianak.