Job Vacancy
Data Scientist (Consultant)

About IESR

Institute for Essential Services Reform (IESR) is a think-tank in the field of energy and environment. IESR encourages transformation into a low carbon energy system by advocating a public policy that rests on data-driven and scientific studies, conducting capacity development assistance, and establishing strategic partnerships with non-governmental actors. There are 4 programs in IESR covering the work on (1) sustainable energy access; (2) green economy; (3) energy transformation; and (4) Clean, Affordable, and Secure Energy for Southeast Asia (CASE).

IESR's vision is to build a world that is better, more sustainable, low-carbon oriented, and able to provide clean, sustainable energy for future generations. Meanwhile, IESR's Mission is to encourage the acceleration of Indonesia's energy transition toward a just, clean, and low-carbon energy system.

About the Project

Indonesia has a unique position in the effort to foster energy transition in the SEA region. As the largest economy in Southeast Asia, the energy transition in Indonesia could affect the flow of investment to clean energy as well as investment in manufacturing, which could shift investment flow in this region and its dynamics. But Indonesia is also rich in fossil fuels and is the main exporter of coal and natural gas.

As this year Indonesia also chairs G20, the Indonesia Presidency could accelerate the global energy transition, and in the SEA region, by increasing countries to scale up the deployment of renewable energy and foster the coal phase-down, as well as modernize energy infrastructure. A web-based monitoring platform will make progress of energy transitions easily to be monitored by the public, journalists, and other interested stakeholders in the region.

Duration: 9 months (June 2022- February 2023)

Duties and Responsibilities

- Data handling
- Create dashboards that visualize data and information presented
- Develop and conduct modeling, statistical analysis, simulation, and optimization;
- Deploy developed models and integrates them with existing infrastructure, systems, and platforms;
- Prepare documentation including detailed problem formulation, data requirements, modeling approach, and implementation steps;
- Present data-driven insights, recommendations, and solutions to a broad range of audiences including peers and senior management in a clear and interpretable manner.

Qualifications:

- Master's degree in one of the following areas: data science, electrical/industrial engineering, applied mathematics, statistics, computer science, or other related quantitative disciplines;
- 3+ years of working experience as a Data Scientist
- Technical skills/experience in Python or R machine learning packages (Python preferred) with the ability to use the following:
  - Scikit-learn
  - TensorFlow (or Keras)
  - Numpy
  - Pandas
  - Matplotlib
  - Seaborn
- Technical skill/experience in Microsoft SQL Server or PostgreSQL or Oracle Database
- Familiar / knowledge of GIS data is a plus
- Good communication and presentation skills

To apply: Submit via email to farah@iesr.or.id and lisa@iesr.or.id by submitting the following documents: 1) resume and 2) cover letter, by 24 June 2022.