

## VACANCY

Yayasan Mercy Corps Indonesia (YMCI) is a local Indonesian non-profit organization, which will implement humanitarian, and development assistance programs throughout the country. YMCI mission is to empower people in Indonesia to become healthy, productive, and resilient communities. Resilience means an ability to recover form or adjust easily to misfortune or change. YMCI is looking for :

### NZMATES Program Summary - Maluku

The New Zealand Ministry of Foreign Affairs and Trade (MFAT) has, through its Aid Programme provided funding for the New Zealand – Maluku Access to Renewable Energy Support (NZMATES) programme. New Zealand-based renewable energy company Infratec Ltd. has been tasked with the delivery of the NZMATES programme. Infratec has engaged with YMCI to jointly implement this five-year programme.

The main goal of NZMATES is to improve social well-being and economic development on Seram Island in Maluku province by supporting, accelerating, and enabling the sustainable development and utilization of the areas' renewable energy (RE) resources (mainly hydro, solar, wind, and biomass) for the benefit of local communities. NZMATES will work towards promoting and accelerating the identification of RE projects and increase their attractiveness and viability, social and environmental assessments, technical considerations, and triggering and facilitating investment and funding from government, private sector, or other donors. NZMATES will partner and collaborate closely with PLN and EBTKE on increasing the use of renewables and improving energy access through grid-connected and off-grid RE projects.

The NZMATES Team will be based in Ambon and will provide support to fill gaps in knowledge, resources, and research, and will ensure that projects are aligned with the Government of Indonesia and community development framework and objectives. The proposed support for RE projects will include assistance with project identification and appraisal, technical and social assessments, finance matching, and project design to strengthen long-term sustainability. NZMATES is also intended to enhance local public and private sector capacity and offer opportunities for direct training, technical exchange programmes, and interaction between Maluku educational institutions and NZ renewable energy specialists.

### 1. Renewable Energy Technical Specialist - NZMATES

The new **Renewable Energy Technical Specialist** (RETS) will join an existing RETS to form part of the NZMATES Team, based at Mercy Corps Indonesia's office in Ambon and travel to programme locations in Seram and surrounding locations. As part of a multi-disciplinary team, this RETS will lead engineering tasks and technical assessments, and will work closely with the other RETS.

This role will be responsible for leading tendering and engineering processes (e.g. detailed engineering, producing bills of materials, drawings, and layouts), technical assessments for potential renewable energy projects, mainly mini- and small-hydro and/or solar PV and storage technologies (e.g. design, engineering, feasibility studies, budgeting, and modelling), and contribute to providing project delivery support with external stakeholders (e.g. supervision, training materials, commissioning good practices, etc.).

This RETS will also support assessments such as scoping potential RE project sites, assessing available RE resource potential, and conducting techno-economic studies from project identification phase (e.g. scoping, pre-design, cost estimates, and pre-feasibility studies), mainly for solar PV mini-grids, hybridisation of diesel-based generation, and grid-connected projects.

Both RETS will be expected to contribute to engagement with different stakeholders involved in the RE project development cycle, and liaise with key technical partners for potential collaboration, and coordination of roles and responsibilities. In particular, both RETS will support and work directly with PLN and ESDM staff on potential projects, and engage with private sector entities and/or communities in developing RE technical project proposals as necessary. Both RETS' tasks will also include supporting the development of practical and technical long-term sustainable business model considerations for RE projects to ensure their financial, technical, and operational sustainability. The RETS will also contribute to community engagement and consultation processes.

The RETS will also be involved in mentoring of other staff less familiar with renewable energy technologies and programmes. It should be noted that while the RETS will be responsible for a wide range of technical areas, the role will be supplemented with technical engineering support, from within Infratec or externally, where required at key stages during the programme. The RETS is also expected to closely engage with the NZMATES Community Engagement Officers for support in data gathering, and also to incorporate aspects of social assessments and considerations into the projects' technical aspects.

### **Qualifications:**

- University degree in electrical or mechanical engineering, renewable energy technologies, or similar;
- 5-10 years' experience in designing and delivering renewable energy projects, preferably solar PV and storage technologies or hydro power technologies;
- Experience conducting feasibility studies, environmental impact assessments, and/or other technical studies in the renewable energy field;
- Renewable energy and energy storage technology experience – preferably one or more of the following:
  - a) Experience using renewable energy and energy storage modelling and design software (e.g. HOMER Pro®, RETScreen, iHOGA, DER-CAM, Excel-based tools, or others);
  - b) Experience using solar PV design and modelling software/tools (e.g. PVSyst, SolarGIS, Meteonorm, Sunny Design); and/or
  - c) Experience using GIS tools and hydropower modelling software/tools (e.g. Casimir, PEACH, Hydrohelp, others).
- Experience using drawing software (e.g. AutoCAD, Sketch-Up, Draft Sight);
- Experience in developing bill of materials for renewable energy projects;
- Experience in developing tendering documentation, detailed design and engineering, and with supporting entities as owners engineer is desirable ;
- Knowledge of renewable energy financial analysis tools (e.g. SAM), using pricing or estimation techniques or software (e.g. Pronamics, Excel, other tools), and developing RE project budgets;
- Some knowledge of conceptual or detailed design of LV and HV network installations will be advantageous;
- Practical, hands-on experience working in energy access and/or renewable energy programmes;
- Ability to foster positive and effective working relationships with variety of stakeholders;
- Strong communications skills and experience working as part of a multi-disciplinary team;
- Experience working in Maluku province and understanding of local context will be highly valued;
- English language skills an advantage;
- Ability to take initiative, to anticipate and solve problems, meet deadlines, work under pressure, work independently on multiple tasks with limited supervision, and work cooperatively with team members and partners;
- Ability to be flexible, open-minded, and creative;
- Willingness to spend significant time in field locations with limited access to commodities.
- Women and people from Maluku are especially encouraged to apply for this position.

Please send your CV together with form on this [link](#) with position applied on the email subject to [hrd@id.mercycorps.org](mailto:hrd@id.mercycorps.org)

Vacancy will be closed **09 September 2018** and only short listed candidates will be contacted for interview.

We look forward to hearing from those who are interested in taking this opportunity to grow and develop with us.

Thanks,  
Human Resources Department  
Yayasan Mercy Corps Indonesia