

Project Engineer – Renewable Energy ENGIE Laborelec LATAM

ENGIE Laborelec performs Consultancy and applied Research and Innovation (R&I) projects on the whole electricity value-chain, including the fields of power generation, transmission, distribution, storage and end-use, with a focus in energy transition and the 3 D's: decarbonization, decentralization and digitalization.

Within the framework of our R&I activities and consultancy projects, ENGIE Laborelec is looking for a talented young engineer. As part of our international team, you will be responsible to deliver projects in which you must analyse data with Python (program language), carry out literature reviews and have plenty of internal and external discussions. Sometimes you will have to travel (abroad) to install measurement devices or follow a training. In more detail, you'll be working on the following activities in which the solar PV related subjects will consume the majority of your time:

- **Technical Support to Improve the Energy yield of Solar Power Technologies.** This technical support will typically include:
 - High-level comparison of different technological solutions to improve the performance of PV technologies,
 - Use of specialized software tools (like PVsyst or similar) to predict generation patterns for different PV project designs and tracker solutions,
 - Make Python solid technical data analysis by filtering and curve fitting. The data comes from different measurement stations (soiling, weather, radiation etc.),
 - Investigate the reliability of solar sensors by onsite and desktop analysis,
 - Develop risk assessment and financial modelling to elaborate business cases for PV Power solutions when required

- **Technical support for Battery Energy Storage Systems (or BESS) associated to Renewable energy Projects.** This technical support will typically include:
 - Analysis of BESS for energy shifting strategies associated to wind, solar or hybrid generation power plants
 - Analysis of frequency regulation services using BESS systems
 - Evaluation of capacity payments for BESS systems.
 - Develop risk assessment and financial modelling to elaborate business cases for BESS solutions when required

- **Technical support to improve the performance of Wind Turbines.** This technical support will typically include:
 - Elaboration of different KPI's to identify the Performance of individual Wind Turbines on a wind farm
 - Analysis of wind resource from Met Masts and LiDAR technologies.
 - Use of Specialized tools (like WindFarmer or similar) to develop wind resource assessment ,
 - Develop Yaw misalignment analyses
 - Identify wake effects and turbulences using Nacelle LiDAR Technologies.
 - Develop risk assessment and financial modelling to elaborate business cases for wind power solutions when required.

The desirable candidate shall be a talented young engineer with an Electrical or Energy engineering degree, ideally with a some experience. The candidate speaks English, has strong programming skills, and a strong drive to learn and to take new technical challenges. Any demonstrated experience in the domain of renewables, BESS or electrical grids will be considered a plus.

The position is located in Las Condes, Santiago de Chile. Start date as soon the right candidate is found. The sooner, the better.

To apply:

- **Send your CV to: florian.heremans@engie.com**