https://www.ensol.nl/vacature/grid-compliance-engineer-consultant/

Grid Compliance Engineer/Consultant

Werkgever
Energy Solutions B.V

Employment
Voltijds, Deeltijds

Location
Ampèreweg 27, 2627 BG Delft

Experience
0 to 4 years

Study
HBO / TU

Contract
32 – 40 uur

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About Energy Solutions

Energy Solutions is a specialist and dynamic engineering firm, with extensive experience in engineering and consultancy in the field of high-voltage electrical energy technology. The projects Energy Solutions is involved in, contribute significantly to the shift to a sustainable energy system and are focused on the Netherlands and Europe. Our team contributes directly to the realization of renewable projects, like (offshore) wind or solar generation, energy storage systems, large renewable consumers (Electrolyzer plants, E-boilers) as well as reinforcements of the existing grid.

Energy Solutions has four teams with different main focus areas :
• High voltage power system design
• Power system technical performance –grid compliance
• Power system technical performance – EMC
• Underground cable system

While working in our team you'll experience a flat leadership structure with direct communication lines. You'll be able to choose your career development path and grow faster by working alongside our team of electrical engineering specialists. You'll work in growing team on exciting renewable energy projects helping the world be more sustainable.

Primary Role

While involvement in the other teams is possible, as a grid compliance engineer and consultant your main focus will be to perform electrical power system studies and advice clients on the outcome of these studies:

• Perform grid studies (such as, load flow analysis, short-circuit analysis, dynamic studies, insulation coordination studies, power quality studies) in various power system analysis tools.
• Build deep knowledge and understanding of the impact of the Dutch and European grid codes on these grid studies and consult our clients on the study results and mitigation measures, if needed.
• Manage the grid compliance process for our Dutch and International clients and liaise directly with the responsible DSO/TSO, expanding your network at both sides and reinforcing Energy Solution's leading position in the grid compliance market.
• Design test plans and supervise grid compliance tests for the renewable energy facilities.
• Participate in the FATs and SATs of the electrical equipment such as, HV/MV cables and Transformers. Write technical reports describing the findings of the simulation studies and conducted analysis
• Conduct discussions with the stakeholders (customers and suppliers).
• Take initiative to help Energy Solutions standardize and automate the grid study simulations.

Knowledge/Experience

• Masters (WO) or Bachelors (HBO) degree in electrical engineering preferably focused on power systems engineering or renewable energy systems.

• Basic experience of some of the power system analysis tools (such as Digsilent PowerFactory, PSS/E, PSCAD, RSCAD).
• Knowledge of Python or other programming language for scripting and automation of the simulation tools.
• Knowledge of electrical high-voltage equipment, power system principles and dynamics.
• Excellent technical writing and speaking skills in both Dutch and English.

Personal skills
• Self initiating and can-do attitude.
• Ability to work independently and take responsibility of the dynamic projects.
• Enthusiasm to learn and grow as a senior engineer/consultant.
• Problem solving skills and critical thinking.

Benefits
• Fast development curve with exciting projects.
• Freedom to take technical training courses or participate in technical conferences for personal development.
• Freedom to choose the career development path and work hours.
• Hybrid work requirements (with minimum 2 days in office). You'll be working either at our office, home or the project location as required.
• Good salary with holiday pay, 13th month and bonus (based on company's profit and your performance).
• 25 vacation days with freedom to buy (or sell) extra hours.
• You'll get work laptop, phone, headphones etc. In addition to flexibility of leasing a car.