https://www.ensol.nl/vacature/high-voltage-engineer-consultant/

High Voltage 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

Posted on
27 februari 2026

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
• Design Electrical infrastructures for the grid and renewable projects (such as wind parks, solar parks & BESS).
• Keep up-to-date knowledge of international and local standards for transformers, cables and other electrical equipment.
• Draw electrical infrastructure technical specifications such as single line diagrams, plot designs of (sub)stations, route drawings for cable connections.
• Perform load flow analysis, short-circuit analysis in Digsilent PowerFactory.
• Perform Earthing and lighting design study for Electrical project facilities.
• Design MV/HV cables by using our in-house cable design tools.
• 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 design studies and conducted analysis.
• Supervise the execution of activities at project locations.
• Perform feasibility, reliability studies and technical-economical optimization studies.
• Conduct discussions with the stakeholders (customers and suppliers).

Knowledge/Experience
• Masters (WO) or Bachelors (HBO) degree in Electrical engineering focused on Power systems engineering or Renewable energy systems.
• Basic experience and knowledge in design of MV/HV Cables and Power-Transformers.
• Experience with AutoCAD and any power system analysis tool (such as Digsilent PowerFactory).

• Knowledge of Electrical-HV 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.