



## Expert Multiterminal HVDC Systems

TenneT is growing fast to realize its strategic ambitions. We play a leading role in driving the energy transition. We are looking for a passionate [JOB POSTING TITLE] at our location/s [JOB LOCATION] who will contribute to this and that might be you?

### Your contribution to TenneT

Energy System Planning is a future-oriented unit, optimized to react to fast-changing external conditions. We develop a vision for a climate-neutral energy system of the future and how our onshore/offshore electricity system can adapt to these challenges in the smartest way.

In this challenging role you will be responsible for the development of multiterminal HVDC grids. You will work in a team with 19 experts of different nationalities to achieve the target grid and contribute to the realization of the European energy transition.

### Your tasks and responsibilities:

- Carrying out DC-side steady-state design and planning studies for the design and specification of the main components of multi-terminal HVDC networks;
- Carrying out DC-side transient design and planning studies to determine functional systemic requirements and design criteria for the design of the main components of a multi-terminal HVDC network;
- Carrying out DC-side resonance and interaction studies in the time and frequency domain;
- Development and coordination of integration and design principles for multiterminal HVDC networks - Transfer of relevant findings into real HVDC projects;
- Cross unit coordination of specific requirements for system integration and expandability of multi-terminal HVDC networks and hub concepts, including special requirements for multi-vendor solutions;
- Timely transfer of findings into functional requirements and usability in real multiterminal HVDC networks (DC-HUB concept);
- Utilisation of the findings from international / national studies for the analysis and further development of hybrid AC-DC network structures with a focus on their expandability.

### Your profile and background

- Successfully completed studies in electrical engineering, preferably with a focus on electrical power engineering;
- Experience with network calculation tools, ideally PSCAD and PowerFactory;
- Professional experience in carrying out steady-state and transient basic design studies for the design of the main components of HVDC systems;
- In-depth knowledge of HVDC systems and VSC MMC technology;

### Additional information

- The weekly working time is 40 hours;
- The position is indefinite;
- Job interviews for this position will be (partly) in English. Please send us your application document in English as well, including a motivation letter.

### Our offer



We are family friendly and flexible



Health - your basis



Modern working environment



Attractive remuneration and social benefits



Personal development

### Our recruiting process

In our online-application-form you can apply within only some minutes as long as this job is posted. Afterwards we screen your application and get back to you as soon as possible.

For further questions regarding the recruiting process please contact:

Danijel Miletic  
People | Talent Acquisition  
06 - 41 18 21 66

For questions relating to the position please contact the hiring manager:

Roald de Graaff | Lead ESP-GP-EHV  
Roald.de.Graaff@tennet.eu

- Proven ability to solve complex technical problems;
- Structured approach to work, strong quality awareness;
- Fluent Dutch and English, both written and spoken;
- Willingness to travel on business.

TenneT is a leading European grid operator. We are committed to providing a secure and reliable supply of electricity 24 hours a day, 365 days a year, while helping to drive the energy transition in our pursuit of a brighter energy future – more sustainable, reliable and affordable than ever before. In our role as the first cross-border Transmission System Operator (TSO) we design, build, maintain and operate over 25,000 kilometres of high-voltage electricity grid in the Netherlands and large parts of Germany, and facilitate the European energy market through our 17 interconnectors to neighbouring countries. We are one of the largest investors in national and international onshore and offshore electricity grids, with a turnover of EUR 9.2 billion and a total asset value of EUR 45 billion. Every day our 8,300 employees take ownership, show courage and make and maintain connections to ensure that the supply and demand of electricity is balanced for over 43 million people.

TenneT is an equal opportunity employer for ALL and is fully committed to the principles of equal employment opportunity to ensure that all applicants and employees are considered for recruitment, promotion and employment regardless of their ethnic origin, skin colour, religion or belief, gender, national origin, age, disability, sexual identity, marital/family status.

**Lighting the way ahead together**

<https://careers.tennet.eu/careers/JobDetail/85280>