



Electrical Engineer Telecommunication 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 Electrical Engineer Telecommunication Systems at our location Arnhem who will contribute to this and that might be you?

Your contribution to TenneT

Join Our 2GW HVDC Grid Expansion Program!

We are looking for a skilled technical expert to support our ambitious 2GW HVDC grid expansion program. This exciting initiative involves the development of multiple 2GW grid connection systems across various regions in the Netherlands, in collaboration with our trusted consortia partners.

Your Role:

As a key member of the team, your expertise will be crucial in shaping the technical success of this large-scale project. You will take the lead in managing telecommunications technology and ensuring smooth coordination across all technical aspects of the project.

Key Responsibilities:

Telecommunications Technology Expertise:

- Specialize in Industrial Automation and Control Systems (IACS) and network infrastructure (copper, fiber optics, radio, office IT).
- Provide expert guidance on digital and analog communication systems, focusing on offshore ancillary systems (PAGA, CCTV, VHF radio, IPTV, and VoIP).
- Experience with VSAT and microwave systems is a plus, but not required.

Project Involvement & Stakeholder Coordination:

- Act as the technical liaison between internal teams, subcontractors, and regulatory authorities.
- Assist in contract negotiations and design processes (both basic and detailed).
- Oversee testing, inspection, and quality control during construction, installation, and commissioning phases.

Compliance & Security:

- Ensure all systems meet the highest standards and specifications (IEC, cybersecurity frameworks).
- Align system design and implementation with operational needs and safety regulations through stakeholder engagement.

Construction & Installation Support:

- Support project managers in subcontractor management and project execution.
- Validate technical documentation to ensure it meets specifications.

Additional information

Job interviews for this position will be partial in English and Dutch. Please send us your application document in English.

- Start 1st of June or earlier when possible
- The weekly working time is 40 hours
- Type of contract is indefinite or one year contract with the intension for indefinite

If you're ready to shape the future of energy with your technical expertise, join us in driving the energy transition at TenneT TSO. Apply now and be a part of our dynamic and impactful team.

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:
Edward Verkammen
Recruiter - People | Talent Acquisition
Edward.Verkommen@tennet.eu
06 - 4297 2559

For questions relating to the position:
Stefan van der Kolk
Lead Project Execution - Hiring Manager
stefan.vander.kolk@tennet.eu

- Provide hands-on technical support during the implementation phase.
- Guide local teams, ensuring quality assurance for mechanical installations.

With your extensive technical knowledge and experience, you will play a vital role in ensuring a safe and efficient working environment for both internal teams and external contractors.

Your profile and background

Education & Technical Expertise:

- A degree in electrical engineering or a related field.
- In-depth knowledge of LAN communication technologies (VLAN, VRF) and network components (routers, switches, firewalls).
- Solid expertise in industrial communication protocols (ModBus TCP, ProfiNet, EtherCAT, OPC) and networking protocols (TCP/IP).
- Understanding of WAN communication technologies (MPLS).
- Familiarity with telecontrol protocols (IEC 60870-5-101/104, IEC 61850).
- Cybersecurity awareness, with knowledge of frameworks like IEC 62443, NIS2, CRA, and ISO 27000.
- Knowledge of (extra-)high voltage energy transmission systems.
- Hands-on experience with the installation and integration of telecommunication system cabinets, including power distribution, cabling, and environmental factors.
- Maritime experience is a strong plus, especially for offshore operations, vessel-based installations, and marine communication systems.

Personal Skills:

- Excellent verbal and written communication skills in both Dutch and English.
- Strong interpersonal skills with the ability to collaborate effectively in teams.
- Highly independent, with a proactive mindset and assertive approach.

Work Conditions:

- Occupational medical suitability for offshore assignments, in line with the AWMF standard.
- Flexibility and willingness to travel frequently, with a Class B driver's license.
- Proficiency with MS Office applications for documentation and communication.

This will be our challenge

Large Projects Offshore is a key contributor to the energy transition. The Unit is responsible for the current and future development of the offshore grid as a whole and subsequently for the development and realization of the DC interconnectors and the Offshore Wind Farm grid connections in both the German and Dutch sectors of the North Sea.

AI and more about TenneT

Since we use AI as part of our recruiting process, we would like to create transparency and clarity at this point. The AI serves exclusively as a supporting and recommending tool to make our processes even faster and more efficient. At no time are automated decisions made.

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.

Lighting the way ahead together

<https://careers.tennet.eu/careers/JobDetail/93580>