



Power System Electromagnetic Transients Strategist

At TenneT, we work every day on the electricity grid of tomorrow. Our goal? A reliable, affordable, and sustainable energy system!

The energy transition calls for smart and decisive professionals. Within the System Integrity department of Energy System Planning, we work daily to manage electromagnetic phenomena so that the Netherlands can continue to rely on a stable electricity grid in the future. Will you contribute to this as a **Power System Electromagnetic Transients Strategist**?

- A motivation letter is optional, but we recommend including one, as it helps us get a better understanding of your application.
- There is no official closing date for this vacancy. We will close it once we have found the right candidate. Therefore, we encourage you to apply as soon as possible

Your contribution to TenneT

As Power System Electromagnetic Transients Strategist you contribute to strengthening and renewing the Dutch electricity transmission system, for the Netherlands to continue to count on reliable and renewable energy.

You will work in the team Power Quality, EMC and EMT team within the System Integrity department, consisting of 12 colleagues. Together you work on ensuring that electromagnetic phenomena in the power system stay under control, an essential task for a stable and renewable energy system. Within our team there is an open and collaborative atmosphere, where innovation and cooperation are key.

- You are responsible for conducting and supervising electromagnetic transient (EMT) studies to evaluate the system technical performance due to grid changes, e.g., due to the introduction of long cable connections or due to the transition from meshed to radial operation in our high voltage networks and identify effective mitigation options;
- You support power quality studies relevant to the evaluation of amplification of background harmonic voltages, harmonic propagation and rapid voltage changes;
- Further you are responsible for reviewing EMT studies as part of the compliance verification process and for developing and maintaining internal policies relevant to electromagnetic transients;
- You act as the contact point between System Integrity and Asset Technology in relevant topics.

Your profile and background

At TenneT we are looking for professionals that contribute to our future electricity transmission system. We expect you to have the right experience and skills to make a valuable contribution to our team and our mission.

Additional information

TenneT offers you the opportunity to contribute to a sustainable energy future. Together with colleagues, partners, and stakeholders, you will work on innovative solutions that make the energy transition possible. You will have the space to develop your talent in an environment that puts your growth at the center. We believe in collaboration, forward thinking, and innovation.

Flexible Conditions

We value a healthy work-life balance and your personal development. That's why we offer flexible benefits such as:

- Hybrid working, including an internet allowance of €32.50 and a home-office allowance.
- Support for your vitality, with contributions towards a gym membership and health insurance.
- Development opportunities through the TenneT Academy, so you can continue to expand your knowledge and skills.

Apply today and become part of our team!

You can apply in just a few clicks through our online form. Once we receive your application, we will review it and contact you as soon as possible.

The process consists of two interviews, and a security screening is part of the procedure.

Finally, if the vacancy is no longer listed on our website, it means the position has (temporarily) closed. Applications can only be submitted through the website, not by email.

For content-related questions, please contact:

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Lead System Integrity
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For questions about the recruitment process, please contact:
Shannon Martina

What do you offer?

- A finished Master or PhD education in Electrical Engineering or comparable;
- Deep knowledge of electromagnetic transients and power quality and their application in power systems;
- Good understanding of power system planning;
- Experience with PSCAD and DlgSILENT Power Factory is a must;
- Experience with EMTP-ATP or EMTP-RV is an advantage.
- Minimum of 5 years of experience in the power systems sector.
- This position requires excellent command of the English language, both written and spoken. Proficiency in Dutch is an advantage.

People | Recruiter

06 - 41 86 52 58

Acquisitions/applications related to this vacancy are not welcome.

Our offer



We are family friendly and flexible



Health - your basis



Modern working environment



Attractive remuneration and social benefits



Personal development

Our recruiting process

You can apply in just a few clicks through our online form. Once we receive your application, we will review it and contact you as soon as possible. The selection procedure consists of 2 interviews.

This will be our challenge

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.

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/99587>