



Power System Stability Strategist

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 **Power System Stability Strategist** at our location in Arnhem 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 develop analysis concepts and perform quantitative analyses of TenneT's transmission system in the light of the European energy transition, and perform compliance verification activities.

You will contribute to and work on determination of the system behaviour of the future, especially with respect to:

- Power system stability due to decreasing inertia and system strength as a result of the phase-out of conventional generation;
- Power electronics integration due to the increase in renewables;
- Power-to-gas, power-to-heat, batteries and other storage systems;
- Development and maintenance of dynamic grid models and tools and methods;
- Studies to identify power system stability issues in the grid;
- Determination of mitigation measures to improve stability based on internal and external analysis;
- Policies related to power system stability and mitigation measures;
- Verification of dynamic models and behaviour for new generator and demand connections;
- Further you will contribute to network development plans and network expansion projects (G0) in the Dutch transmission system and you will participate on behalf of TenneT in national and international working groups and study programs.

Your profile and background

- University degree in Electrical Power Engineering and you have become acquainted with the modelling of electrical networks, especially in the requested field of expertise;
- Able to develop frameworks to estimate them, test these frameworks in discussions with others and then make well-founded statements about future expectations;
- Skilled in handling computer models and have gained experience in using large amounts of data and tooling (e.g. PSS/E, PowerFactory, Matlab, Python);
- Proven knowledge of the transmission system and you have

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, included 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. Our selection process consists of two interviews and an assessment.

For further questions regarding the recruiting process please contact:

Anne Prins Hooijmans

People | Talent Acquisition

anne.prins-hooijmans@tennet.eu

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

Roald de Graaff | Lead ESP-GP-EHV

Roald.de.Graaff@tennet.eu

- experience in conducting power system studies;
- Proven knowledge and experience in performing power flow and RMS-type calculations;
- You have an open style of communication, actively discuss with your colleagues and know how to convince others with arguments;
- Excellent Dutch and English language skills.

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/87457>