



Grid planning and Analysing Specialist

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 **Grid planning and Analysing Specialist** at our location **Arnhem** who will contribute to this and that might be you?

Your contribution to TenneT

You will develop and implement analysis methodologies for the following purposes:

- Assessing the future behavior of the EHV grid and system, particularly in relation to power flow and contingency analyses, system stability, and the integration of power electronics.
- Evaluating power system stability, with a focus on decreasing inertia and fault levels resulting from the phase-out of conventional generation.
- Investigating the integration of power electronics due to the increasing share of renewable energy sources.
- Developing intelligent grid planning concepts, particularly in the context of sector coupling (e.g., power-to-gas, power-to-heat).

You will play a key role in contributing to network development plans and expansion projects (G0) within the Dutch transmission system, while also representing TenneT in national and international working groups and study programs. Additionally, you will collaborate with colleagues in Germany to enhance methods and tools, and contribute to the development and maintenance of the dynamic grid model.

Your profile and background

We are looking for someone with a strong background in Electrical Power Engineering, someone who is proactive and not afraid of tackling uncertainties. You should have experience working with complex data and models, and be comfortable with collaborative discussions to shape the future of power systems.

- You have a relevant university degree, preferably in Electrical Power Engineering, and have gained experience in modelling electrical networks, especially in the requested field of expertise.
- You are not afraid of uncertainties and can develop frameworks to estimate them, test these frameworks in discussions with others, and make well-founded statements about future expectations.
- A proactive mindset, showing initiative and a willingness to explore new ways of solving challenges.
- Proficiency in handling computer models and working with large datasets and tools (e.g., PSS/E, PowerFactory, Matlab, Python).
- You have proven knowledge of the transmission system and experience in conducting power system studies.

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 maximum two interviews.

Additional information

- The weekly working time is 40 hours
- Type of contract is indefinite
- Salary scale 9, €4675 - €9196
- Job interviews for this position will be (partly) in English. Please send us your application document in English as well

Our offer



We are family friendly and flexible



Health - your basis



Modern working environment



Attractive remuneration and social benefits



Personal development

Our recruiting process

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For further questions regarding the recruiting process, please contact:

Shannon Martina

People | Corporate Recruiter

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For questions regarding the position, please contact:

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Lead Systems and Markets

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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/93553>