

Assistant Professor in Electric discharges for the environment

Short Description

We are looking for a tenure track or more senior candidate with an experimental, theoretical or numerical background to work on one or more of the following topics:

- Lightning and upper atmospheric discharges.
- Space weather and its effects on earth.
- Discharges for environmental applications.
- Discharges for circular energy.

Job Description

You will be working as an independent PI within the group Elementary Processes in Gas Discharges (EPG, <https://www.tue.nl/en/research/research-groups/elementary-processes-in-gas-discharges/>). This group works on a variety of plasma related topics, ranging from the ones mentioned above, to more high-tech industrial oriented applications and plasma medicine. Experimental work is done using state-of-the art laser diagnostics, while our numerical efforts are mostly focused around our own Plasimo plasma simulation framework.

The vacancy is open for an assistant professor, either tenure track or tenured, depending on the experience of the candidate. Female candidates are explicitly invited to apply.

- You will be responsible for setting up and driving your own independent research program, by generating funding, and supervising/coaching students at the bachelor/master/PhD level.
- You will be teaching at the Applied Physics bachelor and master level.
- You will contribute to the success of the research group, department, and associated institutes by initiating new internal and external collaborations and proactive participation.

Job Requirements

- Motivated researcher, with a PhD in (applied) physics, chemistry, chemical or electrical engineering, or similar and preferably at least 2 years of experience as researcher.
- Ability to conduct high quality academic research, reflected in demonstratable outputs.
- Motivated to teach, contribute to teaching processes, and to develop excellent teaching skills.
- Strong cooperation skills and ability to work in an interdisciplinary team.
- Effective communication and leadership skills, including coaching and mentoring of students and staff, leading a project or chairing a group.
- Experience in acquiring external research funding from (inter)national funding bodies, or industry is an asset.
- Excellent (written and verbal) proficiency in English.

We offer a meaningful job in a dynamic and ambitious university, in an interdisciplinary setting and within an international network. You will work on a beautiful, green campus within walking distance of the central train station. In addition, we offer a **Tenure Track** of five years with the prospect of becoming an Associate Professor. If you have a more senior profile, a tailor-made career proposal will be considered.

For more information please visit the vacancy online at <https://jobs.tue.nl/nl/vacature/assistant-professor-in-electric-discharges-for-the-environment-998385.html>. Questions regarding the scientific content can be directed to prof.dr.ir. Gerrit Kroesen (g.m.w.kroesen@tue.nl) or dr.ir. Sander Nijdam, Associate Professor (s.nijdam@tue.nl). You can also contact Josje van Oudenaarden, Senior Recruiter, j.e.v.oudenaarden@tue.nl or +31 643559575.