

# Position: Application Engineer



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## ETC Solar B.V. – Application Engineer

### We are looking for an Application Engineer with a background in photovoltaics

Full Time – Rotterdam (NL)

Start date between: November 1<sup>st</sup>, 2019 – January 1<sup>st</sup>, 2020

**Required:** M.S. or Ph.D. in physics, material science, chemistry, electrical engineering, chemical engineering, or related fields.

#### About the team:

ETC Solar is a spin-off from the world-renowned California Institute of Technology (Caltech) and is developing a revolutionary power boosting and cost saving semiconductor tool for the photovoltaics and glass industry. We are developing world's highest-performing and invisible metal contacts: effectively transparent contacts (ETCs). We are looking to expand our research & development team to help further boost the efficiency and reduce the costs of solar modules by integrating ETCs.

#### What we need:

The R&D team is seeking a highly motivated engineer to help with hands-on processing and characterization of the integration of effectively transparent contacts with III-V and thin-film solar modules. The ideal candidate is a versatile and open-minded self-starter comfortable taking on challenges with minimal supervision. In our dynamic environment, a keen focus and strong work ethic are needed to see projects to timely completion. If you're passionate about solving problems, building something from the ground up, and challenging the status quo, we'd like to hear from you.

#### What you'll do:

- Optimize the integration process of ETCs for thin-film and III-V solar cells.
- Design new solar cell contact layouts, in order to maximize efficiency of cells integrated with ETCs.
- Perform feasibility studies to test applicability of ETCs for various PV technologies as well as other optical devices.
- Electrical and optical characterization of solar cells and other semiconductor devices integrated with ETCs.
- Work with R&D, hardware design engineers and vendors to optimize process performance.

**Skills you'll need:**

- Hands-on experience in semiconductor device design, processing, and characterization.
- Experience in photovoltaic and/or compound semiconductor devices is desired.
- Excellent communication and interpersonal skills.
- Highly motivated and entrepreneurial, willing to take charge of your own project.
- Knowledge on polymer processing and nanoparticle inks are a plus.

**What we offer**

- Competitive salary + equity compensation depending on experience/skills applicant.
- Work in a team of world-class scientist and engineers.
- R&D collaborations with large solar cell manufacturers and R&D institutes.
- Be part of a young and energetic team.

Interested? And are you the perfect team member! Let us know and send your motivation letter and resume to Thomas at [thomas@etc-solar.com](mailto:thomas@etc-solar.com).