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## ETC Solar B.V. – **System Engineer**

*We are looking for a Systems Engineer with to help  
with the development of our Printing Head*

### **Full Time - Rotterdam (NL)**

Start date between July 1<sup>st</sup>, 2020 – September 1<sup>st</sup>, 2020

### **Company Overview**

ETC Solar is revolutionizing semiconductor metal printing. We are commercializing and developing a new printing technology for micro-scale metal contacts. After years of technology development, ETC Solar is developing this technology for a pilot and market entry at the end of 2020.

ETC Solar was formed in 2018 as a technology spin-out from California Institute of Technology (Caltech). Development has been financed by governmental grants (NSF, DOE and Horizon 2020) and private capital. As a team of around 10, we are operating out of the Rotterdam Science Tower (Rotterdam, The Netherlands) and Pasadena, California (sales office).

ETC Solar is a fast-paced, agile environment. We are growing and plan to add four (4) new team members by January 2021. Team members wear many hats and we expect them to take initiative and ownership from day one. Strong communication and disciplined organizational skills are critical in this collaborative environment, as well as passion for commercializing next-gen, high impact technologies.

We are looking to expand our research and development team and hire a system engineer to lead the development of our printhead system and assist with process optimization. The company language is English. Our industry is manufacturing systems and equipment.

### **What we need:**

ETC Solar is seeking a **System Engineer** to develop, design and assembly highly precise alignment and printing components. This role involves high-level design of systems and components for our microfabrication machine, troubleshooting existing concept designs, and assisting with designing the architecture for future tool series.

The ideal candidate is a versatile self-starter comfortable taking on tough technical challenges. 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, we'd like to hear from you.

The System Engineer will work with both our design and R&D teams. First year project include:

- Design through implementation of prototype setup for measuring alignment accuracy (low micron accuracy regime)
- Integration of the printhead system into first machine
- Design and implementation of automated systems for micro-printing, wafer handling and conductive ink handling.

### **Essential Duties & Responsibilities**

- Conduct calculations of new critical components for alignment, wafer-handling, micro-fluidic systems.
- Perform pre-approval checks on hardware designs before submittal
- Oversee and assist R&D engineers with implementation testing of novel system
- Lead or assist on special projects to determine feasibility, develop and implement new technologies for future growth in capabilities and offerings
- Develop new applications and test procedures; ensure conformity to standards, procedures, and work closely together with mechanical team to turn designs into practical components

### **Required Skills & Qualifications**

- **+3 years of relevant experience** in the design and experimental testing of high precision manufacturing equipment, or related discipline
- Strong background in system engineering, metrology, or related field
- Proven self-starter: ability to take initiative as well as working in a team,
- Required relevant working experience: >3 years,
- Knowledge on microfabrication techniques is a plus.

### **We offer**

Highly competitive salary depending on experience/skills applicant, and unparalleled growth and development opportunities - all to create a compelling and rewarding work environment. This is a R&D position in a young, fast-growing company with world-class engineers working on a sustainable product.

### **Agency**

ETC Solar does not accept unsolicited agency resumes and will not pay fees to any third-party agency or firm that does not have a signed agreement with ETC Solar.

**Contact:** Thomas Russell, [thomas@etc-solar.com](mailto:thomas@etc-solar.com)