

<b>Job description – Insolight SA</b>	
<b>Title:</b>	<b>Electronic / Electrical Engineer</b>

### Overview:

Insolight is a start-up working in the field of solar energy harvesting and illumination applications. The company core technology is an innovative solar panel with record efficiency (for more information, please check our website [www.insolight.ch](http://www.insolight.ch)). The company is backed by several private investors and public grants.

We are looking for a person that is highly motivated to work in a fast-paced start-up environment. You would be working in a dynamic and passionate team on the EPFL campus.

### Objectives:

Insolight is currently industrializing its solar panels, and custom power and control electronics circuits are required. We are currently seeking an Electronics/Electrical Engineer for the following design, manufacturing and characterization activities:

- **Power electronics:** design, implementation and test of the power output circuitry of our solar modules (solar cells interconnections, protection diodes, etc.), taking into account the requirements of PV installations (current/voltage balance to be compatible with existing inverters, etc.)
- **Control electronics:** design, implementation and test of the control electronics involved in our solar modules integrated sun tracking system (micro-controller, actuator drivers, feedback sensors, etc.)
- **Electronics characterization and qualification:** electrical characterization of our solar modules (IV curve tracing, voltage isolation tests, ...). Definition and management of the qualification plan for power and control electronics, according to operating conditions and relevant industry norms.
- **Project & suppliers management:** coordination of manufacturing partners and suppliers, selection and sourcing of components.

### Knowledge/skills required:

- Several years of experience in power and control electronics design and characterization
- Experience with PV modules or PV installations
- Experience with industrial micro-controllers
- Experience in electronics reliability and quality control
- Experience in coordinating multiple industrial partners / suppliers
- Experience with layout software (ideally Eagle) is a plus
- Experience with motor drivers is a plus

**Conditions:** to be discussed.