

Lead Electrical/Electronics Engineer – High/Low Voltage

<https://www.ehgroup.ch>

About EH Group Engineering

EHG is developing its cutting-edge fuel cell technology for both mobile and stationary applications. Our uniquely redesigned product is a significantly more robust and compact fuel cell. Faced with the challenges of climate change, pollution and the transition to a decentralized energy system, EHG seeks to provide efficient and cost-effective fuel cell solutions to its customers and partners.

The company has an existing collaboration with European Space Agency BIC Switzerland, and has recently been awarded a grant from the European Commission as part of the highly competitive Horizon 2020 Accelerator program to boost the development of our innovative fuel cell technology. The project, which is planned for a duration of two years, is focused on bringing it more rapidly to mass commercialisation.

To help achieve our vision of a decarbonized future we are seeking a highly talented and motivated electrical/automation engineer to join our team.

Job Profile

Experienced electrical/electronics engineer to lead the development of high voltage and low voltage sub-systems and components both for mobile and stationary fuel cell systems based on the EH Group's innovative hydrogen fuel cell technology.

Key Responsibilities:

- Design and optimise relevant high voltage and low voltage sub-systems and components of fuel cell systems under development;
- Provide technical input, produce and examine drawings, written specifications and wiring diagrams at all stages in the project (from concept to full manufacturing, installation, commissioning and support);
- Demonstrate good knowledge of power electronic components and circuits including AC/DC and DC/DC converters, filters, voltage and current transducers, high and low power electrical components, transformers, magnets and power semiconductors;
- Support the projects with confident knowledge of electrical hardware designed for EMC, temperature, safety and reliability under continuous operation;
- Be in charge of general HV safety, incl. planning, coordinating, controlling and supervising work activities relevant to electrical safety, as well as assessing working conditions and defining suitable protective measures;
- Carry out integration of electrical systems and measurements with control and data acquisition systems (based on PLCs and microcontrollers);
- Plan and conduct tests and analysis, review and interpret data;
- Keep project documentation up-to-date in line with quality management systems for the specifications and designs;
- Liaise with suppliers and procure new components and solutions as necessary;
- Strong communication skills with internal and external customers.

Skills and Experience Required:

- BSc/MSc or BEng/MEng level in Electrical Engineering, Electronic Engineering, or an appropriate engineering or technical field;
- Ability to understand and draft engineering drawings, circuit diagrams and specification documents using software such as 'EPLAN'.
- Practical hands-on experience working with high voltage or high current electrical systems in industrial, automotive or laboratory environments;
- Practical awareness of electrical safety regulations, good understanding of recommended electrical practices;
- Certification as an Electrical Safety Technician is a plus;
- Understanding and knowledge in control design and development based on microcontrollers or PLCs (such as Bosch, Siemens, Beckhoff or similar technologies);
- Team player with the ability to function autonomously;
- Minimum 1-3 years industrial experience preferred;
- Experience in fuel cells or batteries is a plus;
- Strong spoken and written knowledge in English and French is mandatory;
- Good written and spoken knowledge in German or any other language is a plus.

Start date: immediately;

Please send your CV with a short cover letter to info@ehgroup.ch;

Only candidates selected for interview will be contacted.

Please apply if you are authorized or have a work permit to work in Switzerland.