

Embedded Engineer (Intern Job Description)

<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. We were also among the five winners of the De Vigier foundation in June 2020.

To help achieve our vision of a decarbonized future we are seeking a highly talented and motivated Embedded Engineer to join our team.

Job Profile

Embedded System Intern engineer for the development and test of fuel cell systems based on EH Group's innovative hydrogen fuel cell technology.

Key Responsibilities:

- Design & testing Interfacing of Sensors & Actuators to digital control systems implemented via PLC (ex. Beckhoff) & Embedded systems (ECU, etc..).
- Design & Develop Base level Software to read/write sensor/actuator information from/to real world for digital control system implemented via PLC & embedded systems.
- Testing the overall digital control software (Application SW & Basic IO SW) using Software in Loop & Process in Loop methodology in MATLAB/Simulink.
- Create relevant documentation throughout the development process (incl. system/component requirements, architecture design, test cases, etc.).
- Provide technical input in discussions with internal and external stakeholders.
- Collaborate with other team members regarding system design, interfaces and functionalities.
- Liaise with suppliers and procurement of new components and solutions.
- Prepare reports, test plans and presentations for internal and external stakeholders.
- Liaise with suppliers and procure new components and solutions as necessary.

Skills and Experience Required:

- BSc/MSc or BEng/MEng level in Mechanical, Automation or related disciplines;
- Practical hands-on experience of troubleshooting electronics, actuators and instrumentation;

- Interest in design, testing of digital control systems using PLC or Embedded Systems.
- Knowledge/skills on using MATLAB/Simulink.
- Strong communication skills.
- Team player with the ability to function autonomously.
- Good spoken and written knowledge in English is mandatory.
- Good written and spoken knowledge in French, 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.