

ELECTRONICS

Hardware: Safety Systems Engineer



Green Innovation meets performance

Our Project

Formula Electric Belgium is a student-based race team that pushes green innovation to performance. We design and build our own electric race car each year to participate in the international Formula Student competitions. This year, we are looking for pioneers to challenge the status quo and bring our top-notch electric race car to the next level. As a postgraduate student, you will research, design, test your systems together with a group of highly motivated, ambitious students. You will work together with your team members and numerous companies to develop new innovations.

Function

As a hardware engineer, you will design, assemble and test **printed circuit boards and embedded systems** in our electric race car.

A race car made by students still needs to be safe, as we drive at speeds up to 140 km/hour, work with 120A at 600V and have a **driverless division**. These safety systems need to be implemented following the Formula Student rules.

Your responsibilities will include designing the **current, voltage and brake monitoring**, designing the **shutdown circuit** (a circuit that cuts the supply of the car, when something's wrong) and implementing the safety systems of the **autonomous** part of the car.

You will have to make the hardware of these features with **Altium Designer**.

Profile

- Bachelor/Master Engineering Science, Engineering Technology or Business Engineering
- Good basic understanding of electronics
- Interests in PCB design with industry software
- Interest in the technical side of the project
- Eye for detail

Returns

- Experience in a unique field of expertise
- Gain exposure to cutting-edge technologies and industry-leading organizations
- Possibility to network and cooperate with international stakeholders
- A summer packed with international racing competitions!

Up for the challenge?



Submit your **resume** and **motivation letter** (one page) to recruitment@formulaelectric.be