

Powertrain Cooling (CFD) 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 international Formula Student competitions. 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, and test your systems together with a group of highly motivated students. You will innovate together with your team members and numerous companies to develop our next generation formula student race car.

Function

As a Cooling Engineer, you will be responsible for the design and optimization of the **water-cooling system** of the car, covering critical components such as the electric **motors, inverters,** and **radiator**.

Your work ensures that all powertrain components operate within their optimal temperature range under high-performance conditions. You will perform **CFD simulations** on the cooling sleeves of the motors and radiator to analyze heat transfer and fluid flow. In addition, you will study **flow and piping characteristics** of the cooling circuit to select an appropriate **pump** and ensure proper system performance. This role combines thermal engineering, fluid dynamics, and system-level thinking, making it ideal for engineers with a strong interest in CFD and cooling systems for high-performance applications.

Up for the challenge?

Profile

- Bachelor/Master Engineering Science, Engineering Technology or equivalent
- Knowledge about heat transfer and fluid dynamics
- Interest in CAD/FEM software
- Interest in CFD simulations

Returns

- A unique engineering experience
- Developing your hard- and soft-skills in a company-like environment
- Work with the newest technologies and innovative companies
- Work in a team with a network of well over 120 partners
- A summer season packed with competitions all over Europe
- An experience of a life-time!



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