



Powertrain Cooling

Green Innovation meets performance

Our Project

Formula Electric Belgium is a team of engineering students who build a **Formula-Student racecar** to compete in international competitions. We design and build a brand-new car every year and compete with other teams in multiple worldwide competitions during the summer months. Formula Student is by far the biggest **engineering competition** in the world and continues to grow. From next year on, we will be competing in both the **electrical** and **driverless** competition. You can join the project as a volunteer. This allows you to contribute to the next race car whilst keeping a flexible schedule.

Tasks

Maximal performance is accompanied with large heat generation. To cope with this, a good **cooling network** is needed in order to get the maximum power out of the car during competition, in a safe manner.

You are mainly engaged with the selection of **radiators** and **fans** and the development of the **battery case**. This has to cool the battery as well as possible and comply with safety regulations imposed by the competition.

A good knowledge and understanding of the courses "Thermomechanical machines" and "Heat transport" is a great asset for this position.

Profile

- Knowledge about radiators and fans
- Knowledge about heat transfer
- Practical insight in mechanical connection-techniques
- Interest in new CAD/FEM-software (Siemens NX)

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!

Up for the challenge?



Submit your **resume** and **motivation letter** (one page) to
<https://formulaelectric.be/vacancies-theses/>