

## Garrett Powertrain Innovation Award

Garrett is a leading provider of automotive technology. Our cutting-edge technical solutions and unique expertise in high-speed electrical machines including Turbomachines, High speed e-motors, Power Electronics and Control Software makes us stand out and help vehicles to become cleaner, more efficient and connected.

Visit our website to learn more <https://www.garrettmotion.com/>

Garrett is proud to grant the Powertrain Innovation Award to promote innovation technology solutions for engineering students to enable the advancement of the Electrical Vehicle Powertrain in the Formula Student competitions.

### GUIDELINES

#### SCOPE

The Garrett Powertrain Innovation Award is applicable to the differentiated product or process of the Formula Student EV Racing vehicles.

#### CRITERIA FUNDAMENTALS

This award honors Formula Student EV teams whose accomplishments include:

- Outstanding research of the problem statement
- Contributions to developing next generation Formula Student technology
- Innovative & differentiated design approach
- How much of the design solutions or architecture was formulated by the team

*Note that you will need to participate in the Formula East race to qualify.*

#### WHO

Any Formula East EV team is eligible. There is no limit as to how many students can be in the team.

#### COMPONENT SCOPE

The product or process innovation is applicable to any component in the EV powertrain.

#### AWARD SUBMISSION

Submit an application to: <https://www.garrettmotion.com/formula-sae-and-formula-student-sponsorship/fs-awards/>

Submission deadline: **Friday, 4<sup>th</sup> of August, 15:00 CEST**



## EVALUATION

The team will be approached during the event to specify their innovation. To learn more visit:

<https://www.garrettmotion.com/formula-sae-and-formula-student-sponsorship/>

If you would like to provide additional information, attachments of the innovation technology or have any other question, contact:

[Garrett\\_FormulaStudent@garrettmotion.com](mailto:Garrett_FormulaStudent@garrettmotion.com)

## Garrett Powertrain Innovation Award

*We are proud of innovators like you and your team that push the limits of technology and inspire the next generations of **Garrett engineers** to come.*

Questions that will be assessed to choose the award winner.

### Tell us about you and your team

- Team Name
- University
- Last Name, First Name
- Your role in the team
- Phone Number
- Email

### Tell us about your team's powertrain innovation

- Innovation name
- Describe the innovative & differentiated powertrain technology added to the Formula Student car in the current year
- Describe the need you are addressing with this technology & the approach used to identify the need for this innovation
- **Describe and quantify the competitive advantage gained by using this technology and how it links with the team strategy**
- Describe the design approach and engineering processes used to apply this innovation solution (Tools/ Trade-offs)
- Do you have any interesting stories to share about the innovation idea, the development of the technology or the team dynamic linked to this idea? If so, please share them with us.

Thank you for applying to the Garrett Powertrain Innovation Award.

## NEXT STEPS - ASSESSMENT PROCESS

- A team of Garrett experts will evaluate the innovation technology to be discussed during the design event.

Points will be awarded based on:

- Quantification of benefits and trade-offs  
(*Efficiency, mass reduction, cooling capacity, battery capacity, reduction on lap time ...*)
- Differentiation
- Complexity
- Ingenuity
- Impact
- Teamwork

## RECOGNITION

The winner will be announced during the award ceremony.

## PRIZE

This award consists of an innovation recognition of:

- \$1,500 honorarium
- Discovery experience at Garrett's largest R&D Center in Brno, CZ and enjoy a fun innovation & learning experience funded by Garrett (*Limited to 5 team members*)

## CONTACT

- Email address: [Garrett\\_FormulaStudent@garrettmotion.com](mailto:Garrett_FormulaStudent@garrettmotion.com)

Thanks again for being an innovator, we will see you at the race!

**Garrett** Formula Student Racing