



Technische
Universität
Braunschweig



TU BRAUNSCHWEIG
summer school



Summer School 2023

Summer School for Advanced
Sustainable Aviation Technologies



Photo:
Kristina Rottig/TU Braunschweig

The world is facing an enormous challenge in transferring aviation into a more sustainable and greener transport mode.

In the long run, sustainable and emission-free flights over the entire aviation sector from short range to long range operation are the current priority and require enormous research and

development activities which can by no means be limited to classical aerospace disciplines. Instead, they require new interdisciplinary approaches, methods and teams covering all aspects from aerospace, from materials to structures, from energy to propulsion as well as aircraft design, electrical engineering and even economic and social sciences.

Of course, this all starts with an up to date insight in the most current state of the art in aviation. In our Summer School course, you can acquire both theoretical knowledge and practical project experience in the field



Photos: Sebastian Olschewski/TU Braunschweig, Walter Bergmoser/TU Braunschweig

to address these grand challenges, and to connect with fellow students from different countries.

The programme is divided into two parts: The basic knowledge about methods and technologies will be given in lectures held by professors from the partner universities TU Delft and Tampere University as well as from aviation industry experts during the virtual phase. Afterwards, you will put your knowledge into practice. The on-site phase will consist of additional lectures in Braunschweig to gain specific insights and well as a hands-on

project that will be conducted in international and interdisciplinary teams, supervised by professors.

The on-site phase will be complemented by an extensive social programme in and around Braunschweig. You will get to know the city and the region, the university's research airport and some of TU Braunschweig's research facilities as well as nearby companies such as Volkswagen and a local brewery. You will have enough time to explore the city on your own and to get to know your fellow students.

Key facts

Time period	14–25 August 2023
Registration deadline	30 April 2023
Event form	Online (14–17 August) and on site (21–25 August)
Participation fee	Free of charge
Registration fee	approx. 317 € (for enrolling as an exchange student) ¹
Language of instruction	English (on the level B2/C1)
Workload	90 hours, divided into virtual and on-site phases
Credits	3 ECTS credits
Certificate	Graded certificate
Target group	Master students of any discipline from TU Braunschweig, Tampere University, or TU Delft with a strong interest in sustainable aviation technologies

¹ The fee covers reduced prices for food in the cafeterias, reduced prices for museums, cinemas, and similar local culture as well as sport offers, and includes free travel in all local trains and public transport in all of Lower Saxony. You need to enrol as an exchange student at our university to have access to all university services. However, enrolling is not necessary to participate in the Summer School programme.

Any questions?

Please do not hesitate to contact us, we are happy to help!

Joana Zimmer

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Impressions of our Summer Schools



Institute for Structural Design



Braunschweig's historic centre



Trip to Berlin



Autostadt in Wolfsburg



Visiting Wolfenbüttel



Research Airport

Application

Please apply before **30 April 2023**. Registration may be closed before the deadline in case the maximum of participants is reached.

Please use the application form that you can find on our website:

→ www.tu-braunschweig.de/summer-school

After filling out the form, please send it to us via email:

✉ summerschool@tu-braunschweig.de



Photo:
Stephan Nachtigall/TU Braunschweig