**PhD Positions in Thermoplastic Composites**

**[Specifications]**

Faculty/Department Aerospace Engineering/Aerospace Structures and Materials

Job type PhD

Scientific field Engineering

Hours per week XX

Salary €XXXX

Desired level of education: MSc

**Challenge**: Developing ultra-efficient aircraft.

**Change**: Researching and harnessing cutting-edge thermoplastic composite technology.

**Impact**: Driving sustainable aviation for future generations.

**[Job description]**

To accelerate the transition to climate neutrality in the aviation sector, the development of ultra-efficient aircraft is crucial. This requires groundbreaking research into revolutionary new materials, structures and production technologies. As a PhD at TU Delft’s Aerospace Structures and Materials (ASM) Department, you will work at the forefront of application-driven research. Would you like to work with leading manufacturers, airlines and researchers in the Dutch aviation industry and contribute to sustainable aviation? The Dutch government-funded multi-year project in which you will be involved covers the entire spectrum from materials development and structure design to production, certification and recycling geared to thermoplastic composite technology.

We offer several PhD positions, each geared to unique fundamental and experimental research lines. You may, e.g., focus on the development of entirely new ultra-light thermoplastic composites. Or on revolutionary production, processing, and assembly and welding techniques, driving down energy consumption, waste and e.g. the use of titanium fasteners. Alternatively, you may focus on the ‘factory of the future’, boosting the Dutch aviation manufacturing industry’s competitiveness. By developing rapid non-destructive testing methods to dramatically reduce inspection times or by digitising manufacturing processes to demonstrate process reproducibility. Of course, you will be writing articles and disseminating knowledge in scientific communities and at conferences.

Learn more about our research framework and themes

At ASM, you join the research team of one of our principal investigators, who will supervise you to completion. And if you enjoy coaching others, you may support your team’s BSc and MSc students with their thesis projects. As our research is interdisciplinary by nature, you will also collaborate with the researchers of other teams working on this project. Over thirty professors and over eighty PhD students and postdocs share an ambition to contribute to sustainable aviation with high-quality research. We foster a collaborative, friendly and open environment, giving you all the support and training you need to evolve both personally and professionally. Your training will include a Doctoral Education programme tailored to your specific needs and goals. Suffice to say that our state-of-the-art research laboratory facilities are at your disposal.

**[Requirements: max. 7 bullets]**

* You hold an MSc in materials science, mechanical engineering, process engineering, production technology, chemical engineering, physics or another relevant subject.
* You have knowledge of, or a keen interest in processing-related aspects of polymers and composites.
* Working on interdisciplinary research, you have a keen interest in other disciplines and a drive to learn all you need to know.
* You have experience of numerical methods and know how to combine them with your experimental skills.
* You thrive on leveraging science and your creativity to application-inspired challenges and developing solutions that will contribute to the ultimate goal of sustainable aviation.
* You enjoy working and interacting with industry R&D experts, scientists and students alike, harnessing your communication skills and initiative to achieve meaningful team results.
* You have a good command of written and spoken English, as you will be working in an international environment.

**[TU Delft (Delft University of Technology)]**

[Automatically completed by recruitment system]

**[Template text department]**

[Automatically completed by recruitment system]

**[Conditions of employment]**

[Automatically completed by recruitment system]

**[Additional information]**

If you would like more information about this role, please contact please contact [name], [role], email [email address].

If you would like more information about the selection procedure, please contact [name], [role], email [email address]

**[Application procedure]**

Are you our new PhD candidate? Upload your motivation letter and CV using the application button below before [date]. Please address your application to [First name Last name], [job title]. The initial interviews will take place on [date].

**[Metatitle]**

PhD Positions in Thermoplastic Composites | TU Delft

**[Metadescription]**

Conduct groundbreaking research into the development and production of revolutionary materials for sustainable aircraft as a PhD student at TU Delft.

**[Intro’s social media 3x]**

If the aviation sector is to accelerate its transition to climate neutrality, revolutionary new materials and their sustainable production are vital. As a PhD student at TU Delft, you will contribute to the wide research spectrum of materials design, production and recyclability, resulting in sustainable thermoplastic composites to be used in ultra-efficient aircraft. Join us.

Would you like to contribute to sustainable aviation and work with leading manufacturers, airlines and researchers in the aviation sector? Join TU Delft as a PhD student and conduct research into the development and sustainable production of revolutionary new thermoplastic composites to be used in ultra-efficient aircraft. Apply now.

Conducting groundbreaking research into the development of thermoplastic composites for application in the aviation industry. That’s your challenge as a PhD student at TU Delft’s Aerospace Structures and Materials Department. Would you like to work at the forefront of research geared to the development of the aircraft of the future? Check the job post.

**[Relevante hashtags]**

#vacancy #workingatTUDelft #PhD #research #thermoplasticcomposites #ultraefficientaircraft #sustainableaviation #climateneutrality