



## **Triple-Award Programme**

M.Sc. in Composites | 60 ECTS

Management Certificate | 12 ECTS

German Language Certificate | 18 ECTS



## CFRP – Key Technology as a Career Factor

The significance of composite technologies will strongly increase over the next years. The availability of study programmes on this subject is directly based on the demand from companies and research institutions for education and training in order for Germany to remain competitive in these key technologies in the future.

Carbon fibre-reinforced polymers (CFRP) and other composite materials are considered to be the material family of the future. These materials are particularly robust, non-corrosive and at the same time lighter than steel or aluminum. The CFRP industrial sector is predicted to grow by around 10% per year. Lightweight structures made of composite materials are increasing in importance across all industrial branches such as the automobile, mechanical engineering and plant construction, railway and shipbuilding industries. The demand of business enterprises and research institutions for engineers specialized in the field of composite structures who can work in positions at the interface between research, production and technology management will strongly increase.

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### Study Programme in Short

**Prerequisites** Degree in engineering or mathematical science with above-average marks and at least one year of professional experience

**Start** October 1  
(international English version)

**Application Process** written application, personal interview

**Application Documents** Application letter, letter of motivation, CV, copies of all official university diplomas and internship certificates, letter of reference from university, research centre or company, PFH Göttingen application form

**Tuition fees** 7,200.- EUR per semester

**One-time admin fee** 520.- EUR  
(waived for EU citizens)

**One-time enrolment fee** 420.- EUR

**One-time examination fee** 1,000.- EUR

**Financing** Individual consultation on scholarship programmes

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## With the Economy for the Economy

Close interaction with the economy has been an integral part of PFH's concept since its foundation. The Board of Trustees is made up of companies from different branches of industry ranging from small- to medium-sized businesses to globally operating enterprises. Particularly important for the technological study courses in the field of CFRP are the Airbus "Center of Excellence" in Stade, one of the largest manufacturing locations for CFRP components in Europe, and CFK Valley e. V., a network of competency with more than 100 member companies and research institutes focusing on the CFRP growth market.

## Curriculum Structure

The Triple-Award programme takes place at PFH Hansecampus Stade, located in the direct vicinity of the Airbus Plant and CFK Valley e. V., and lasts for 3 semesters with a total of 90 ECTS. It has been developed with international engineering graduates in mind who are seeking to gain expertise in the exciting field of composites and who have an affinity towards Germany. Its full-time nature and its inclusion of management courses and intensive German language training are designed to give international students the full student experience and to increase their employability in Germany, Europe and worldwide. The heart of the MSc programme consists of four 16-day blocks of lectures and workshop/lab sessions, between which students take intensive German language and Management courses. The final semester is dedicated to the master's thesis. Upon successful completion, students will be awarded a fully accredited and state-recognised Master of Science degree in Composites, a Management Certificate, and a German Language Certificate.

### Triple-Award Programme | 3 Semesters

<b>Block 1</b>	<b>Composites</b> Material Mechanics and Material Behaviour, Damage-Tolerant Structural Design, Strategic Management, Calculation Methods of Structural Mechanics	<b>German</b> German Level A1 Structural Design	<b>01</b>
		<b>Management</b> Sales Management I, Sales Management II	
<b>Block 2</b>	<b>Composites</b> Deterministic Assessment of Production Processes, Nonlinear Methods of Structural Design, Assembly Logistics of Automated Production and Service, Quality Assurance Methods in Production and Service, Innovation Management	<b>Management</b> Project Management, Business Simulation Game	
		<b>German</b> German Level A2	
<b>Block 3</b>	<b>Composites</b> Digital Plant Planning, Industrial Production Technologies for Composite Structures, Adaptive Composite Structures, Deterministic Assessment of Production Processes	<b>Management</b> Innovation Management	<b>02</b>
		<b>German</b> German Level B1.1	
<b>Bl. 4</b>	<b>Composites</b> Hybrid Construction, Adaptive Composite Structures, Design of Composite Materials		
	<b>Master's Thesis</b> Master's Thesis, Oral Defence of Thesis		<b>03</b>

## Your Contact

Please do not hesitate to contact us for further information:

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SAP

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Kuratorium Airbus Operations GmbH  
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