

PFH

PRIVATE UNIVERSITY  
of Applied Sciences

CAMPUS STUDIES

YOUR WAY. YOUR FUTURE.

**Computer Science for Business**

Master of Science



## Content

About the Programme	4
Curriculum	5
Your Professors	6
Best Career Prospects for your Future	7
Your Benefits	8
Scholarships and Funding Opportunities	9
About PFH Private University of Applied Sciences	10
Contact	12



## Computer Science for Business

Master of Science (M.Sc.)

90 ECTS

Computer Science for Business is a multidisciplinary programme that bridges the gap between technical and management aspects.

On the technical side, the programme explores AI and data science topics, not just for management reports or big data, but also for specific products and processes in enterprises. It also covers AI and machine learning, focusing on how AI can assist with business processes in various departments, quality control, or by generating enterprise content.

On the business side, you will learn everything needed to lead IT projects or IT departments, including project planning, budgeting, and team leadership. This programme is ideal for those with a technical background, an interest in IT-business, and an entrepreneurial drive.

It is for students who want to gain more knowledge in business to boost their qualifications for management positions, as well as for developers who wish to dive deeper into technical topics like AI or Data Science.

### Overview

**Degree** Master of Science (M.Sc.)

**ECTS** 90

**Duration** 3 semesters

**Start Dates** April 1<sup>st</sup> and October 1<sup>st</sup>

### Admission Requirements

Bachelor's degree or equivalent in a degree programme with the focus on IT, a year of professional experience and knowledge of programming and business administration.

### Language Requirements

English proficiency at a minimum level of B2 (CEFR), to be certified with an English language certificate (TOEFL iBT score 86, IELTS score 6.5, Duolingo, or equivalent). Alternatively, a document stating that the medium of instruction for your Bachelor's course was English.

### Application Procedure

Written or online application & admissions interview. Deadline: possible to apply at any time. International applicants are advised to apply at least 3 months before the programme starts. Documents: PFH application form, letter of motivation, CV, copies of all official university diplomas and internship certificates, letter of reference from university and/or research centre and/or company, copy of passport, digital photo.

**Study Location** Göttingen

### Tuition Fees

EUR 990.- per month

EUR 500.- admin fee (one-off),  
waived for EU citizens

EUR 500.- enrolment fee (one-off)

EUR 1,000.- examination fee (one-off)

### Application

[pfh.de/en/application](https://pfh.de/en/application)

## Computer Science for Business (M.Sc.) | Master of Science | 3 Semesters | CURRICULUM

### 1 Semester

#### Module 1: International Human Resources Management

- 1.1 International HR Management
- 1.2 Strategic Controlling

#### Module 2: IT Architecture

- 2.1 Hardware/Infrastructure,
- 2.2 Software and Enterprise Architecture

#### Module 3: Information and Knowledge Management

- 3.1 Knowledge Management & Collaboration,
- 3.2 Multimedia and Internet

#### Module 4: IT Platforms and Interfaces

- 4.1 Industry Solutions
- 4.2 Interfaces

#### Module 5: Specialisation I \*

##### 5.1 AI & Data Science & ML

- 5.1.1 Data Science
- 5.1.2 Machine Learning

##### 5.2 IT Management & IT Services

- 5.2.1 IT Strategy Development
- 5.2.2 IT Service Management

### 2 Semester

#### Module 6: Business Process Management

- 6.1 BPM Methods
- 6.2 BPM & IT

#### Module 7: Information Security Management

- 7.1 IT Security
- 7.2 ISMS

#### Module 8: IT Project- and Development Management

- 8.1 IT Project Management
- 8.2 Software Engineering

#### Module 9: Research Seminar

- 9.1 Research Seminar

#### Module 10: Specialisation Module II \*\*

##### 10.1 AI

- 10.1.1 ANN & Generative AI
- 10.1.2 AI Applications

##### 10.2. IT Operations & IT Controlling

- 10.2.1 IT Operations
- 10.2.2 IT Controlling

### 3 Semester

#### Module 11: Project Work \*\*\*

- 11.1 Project Work
- 11.2 Projekt Work (Internship min. 8 weeks)

#### Module 12: Master's Thesis

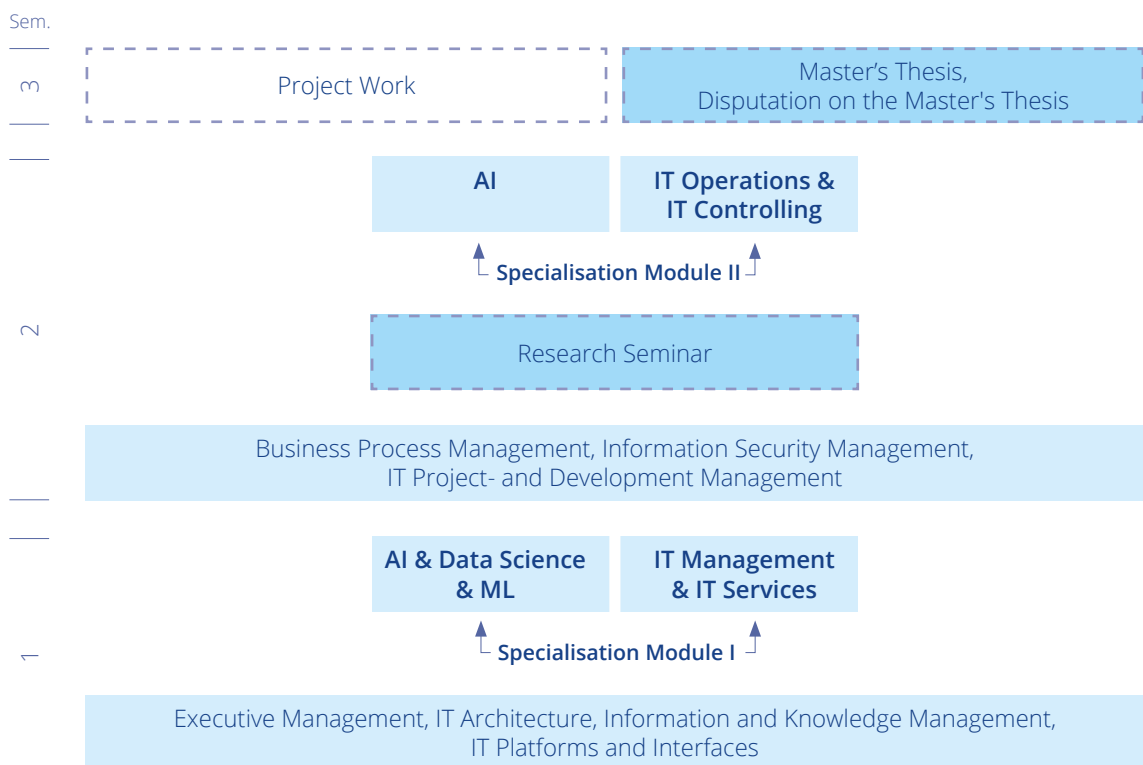
- 12.1 Master's Thesis
- 12.2 Disputation on the Master's Thesis

\* Students choose a module.

\*\* Students continue with Specialisation Module II based on their choice of Specialisation Module I.

\*\*\* Students choose between writing a term paper or an internship with writing a term paper or a practical reflection.

## OVERVIEW: STRUCTURE AND CONTENT OF THE PROGRAMME



Individual changes reserved.



## Your Professors

The key to a top-notch education is the faculty that brings it to life, and at PFH, our professors come with years of real-world experience in top positions in the business world. From corporate execs to consulting gurus to entrepreneurial whizzes, our faculties are deeply connected to our network of industrial partners, ensuring that your education is relevant, practical and always on the cutting edge of business trends and demands. The close collaboration between PFH and the business world is exemplified by the establishment of endowed professorships.



**Prof. Dr.-Ing. Stefan Wagenpfeil**

Software-Engineering and IT-Management



**Prof. Dr. Hubert Schüle**

Business Information Systems and E-Business



**Prof. Dr. Frank Albe**

General Business Administration, specialising in Tourism Management and Controlling



**Prof. Dr. Antje-Britta Mörstedt**

General Business Administration, specialising in Organisation and Blended Learning



**Prof. Dr. Carolin Ebermann**

Digital Psychology



**Prof. Dr. sc. agr. Julian Voss**

General Business Administration, specialising in Entrepreneurship and Finance

## Computer Science for Business (M.Sc.)

# Best Career Prospects for your Future!

Individual focus areas and practice-oriented project work offer future IT-managers the best possible preparation for their careers.

Well-equipped to advance their careers and achieve their professional goals, our students have a wide range of job perspectives in various industries and fields.

With our Computer Science for Business programme, you have the possibility to work in a position that connects between technical and management aspects. You will have the skills and knowledge to manage IT-projects and to run IT-organisations but also understand the technicalities of an issue.

Find out what kind of expert you want to be!

### **IT Project Manager and IT General Manager**

Responsible for planning, executing and finalizing IT projects while sticking to strict deadlines and staying within budget; coordinating resources, managing stakeholders and ensuring high quality standards; utilising project management methodologies to achieve successful project outcomes.

### **AI and Data Science Specialist**

Accountable for the designing and implementation of machine learning models and data analysis; working on big data projects to derive actionable insights and optimising processes; collaborating with cross-functional teams to integrate AI solutions into business operations.

### **IT Security and Compliance Analyst**

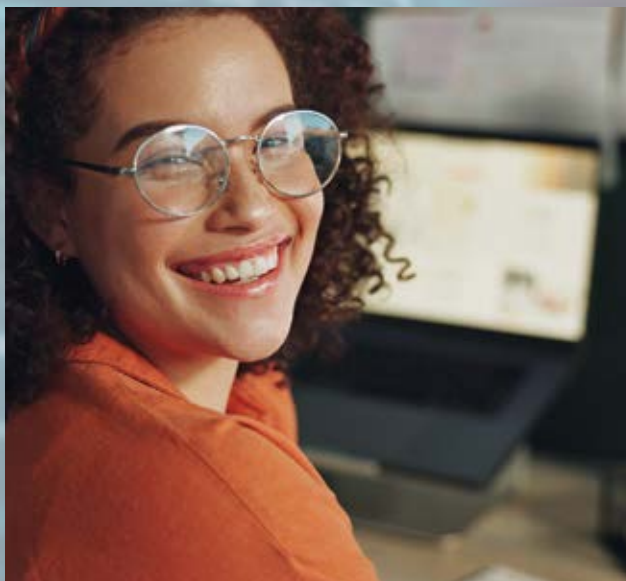
In charge of ensuring the security and integrity of IT systems by implementing robust security measures; monitoring compliance with legal and regulatory requirements; conducting risk assessments and developing incident response plans; educating staff on cybersecurity best practices.

### **Business Process Manager**

Overseeing the design, implementation and optimisation of business processes; utilising modelling techniques to improve efficiency, quality and flexibility; analysing processes to identify improvement opportunities and integrating BPM software into existing systems.

### **Scientific Research Coordinator**

Managing the development and completion of scientific research projects related to IT technologies; ensuring proper methodology, data collection and analysis; guiding students through research processes while maintaining high standards of academic integrity.



## Your Benefits

- English-taught programmes
- Experts from business & industry
- Small learning groups
- Individual support
- High employability
- Affordable living

## Job Guarantee

Since there are plenty of job openings in the German job market, we are confident our students will find jobs quickly after they finish studying. That's why we're offering a 20% refund on full tuition fees if they don't land a job within 9 months of graduating.

### To be eligible for the refund, you need to have:

- successfully completed your studies within the regular study period.
- attained a minimum GPA of 2.5 upon graduation.
- shown proof of a B2 level German language proficiency in form of a certificate.

## Questions – always welcome

Need assistance? Just let us know and we'll be happy to help.

### International Student Recruitment

📞 **Call** +49 172 2644144

💬 **WhatsApp Chat** +49 172 2644144

✉️ **Email** [study@pfh.de](mailto:study@pfh.de)



# Scholarships and Funding Opportunities

We offer various scholarship programmes and special arrangements to provide financial support. Our team is dedicated to helping you explore all available funding options and guiding you through the application process. Let us assist you in finding the best solution for your individual needs. Selection:

## Deutschlandstipendium (Germany Scholarship)

The programme, initiated by the government in 2011, supports students who have demonstrated the promise of outstanding achievements in their studies and careers. As a scholarship holder you receive monthly financial support of EUR 300.- for the duration of one year. The federal government and committed sponsors each finance half of the scholarship. You will also become part of a network and can benefit from contacts in the field. In this way the Deutschlandstipendium offers more than just financial support.

## STIBET-Programme

The German Academic Exchange Service (DAAD) funds the STIBET-Programme with funds by the Federal Foreign Office. The International Office of PFH offers scholarships for study completion and scholarships for social commitment to qualified international students of PFH.

### Scholarship for Study Completion:

- Apply in the last semester of your studies.
- Scholarship sum: EUR 1,000.- (one-off)

### Scholarship for Social Commitment:

- Apply from the second semester of your studies
- Scholarship sum: EUR 1,500.- (one-off)

## DAAD Prize

The DAAD Prize has been awarded for over ten years now and aims to put a face to the many international students at German universities and link them with their stories. Having been a recipient of the DAAD Prize can be of great advantage when beginning a professional career.

What you need to know:

- Performance-oriented scholarship
- Apply from the 2nd semester of your studies
- Award amount: EUR 1,000.- (one-off)

## Top Student Scholarship

PFH offers a 20 % scholarship for outstanding students who apply for admission to their programmes. This scholarship is awarded to any applicant based on their academic achievements and other relevant criteria. It is a great opportunity for exceptional students to receive financial support to pursue their education at PFH.

## Other Scholarship Programmes

The following scholarships may also be interesting for you. Please note that if you are already a recipient of a talent and performance-based scholarship, you cannot additionally receive a German Scholarship.

- Erasmus Scholarship Programmes
- Friedrich-Ebert Stiftung
- Heinrich-Böll-Stiftung
- Konrad-Adenauer Stiftung





## About PFH

### Private University of Applied Sciences

As Lower Saxony's oldest private, state-recognised university, PFH has been paving the way to success for over 25 years. Our programmes are designed to educate the next generation of leaders, innovators and entrepreneurs. With a focus on practical learning and real-world experience, you will gain the skills and knowledge you need to succeed in the competitive business landscape. Plus, our personalised approach means that we are here to support you every step of the way as you unleash your full potential.

PFH currently offers more than 50 campus or distance learning programmes with Bachelor's and Master's degrees in the fields of Management, Business Law, Business Information Systems, Business Psychology, Psychology, Sociology and Technology. The nearly 4,800 enrolled students (as of August 2024) are divided into 600 campus students and 4,200 distance learning students.

With its total of 30,000 students at three universities, Göttingen is a young, international city where everything is at close proximity to each other. As such, a thriving cycling culture has become predominant, adding to its liveliness.

Located just a stone's throw from the vibrant city center, our state-of-the-art campus is perfectly situated for easy access to all that Göttingen has to offer. Whether you're hopping on a train, hitting the books at the ultra-modern Lower Saxony State and University Library or grabbing a bite to eat at one of the many canteens of the university, everything is just a few steps away. Plus, with a wide range of student union facilities and amenities at your fingertips, you'll have everything you need to succeed – right here at PFH!

As an enrolled student at PFH, you'll enjoy a wide range of perks that are designed to enhance your student experience. With our semester and culture ticket, you'll have the freedom to explore all that Lower Saxony has to offer – completely free of charge! Hop on a train and discover new cities or take advantage of discounted cultural activities and events – the choice is yours. Plus, with so much to see and do, you'll never be bored as you study and grow at PFH.

As a proud member of the Galileo Global Education Group, PFH is a true trailblazer in the world of business and entrepreneurship.

## Mastering Tomorrow's Challenges with our Advanced Programmes

Our cutting-edge curriculum is designed to give you the skills and knowledge you need to thrive in today's fast-paced business world – and with a focus on practical, real-world applications, you'll be able to hit the ground running from day one. Plus, with close ties to some of the world's most innovative and forward-thinking companies – including Airbus, TUI, along with 500 more – you'll have plenty of opportunities to connect with industrial leaders, network with your peers, and get a firsthand look at what it takes to succeed in the world of business.

PFH takes your career to the next level with our innovative Master's Programmes. Choose from a variety of areas, including General Management, MBA, Technology (Digitalization & Automation, Industrial Engineering, Lightweight Engineering & Composites, New Mobility – Micromobility), and UX Management & Design.

With our world-class curriculum and expert faculties, you'll gain the skills and knowledge you need to excel in your chosen field.

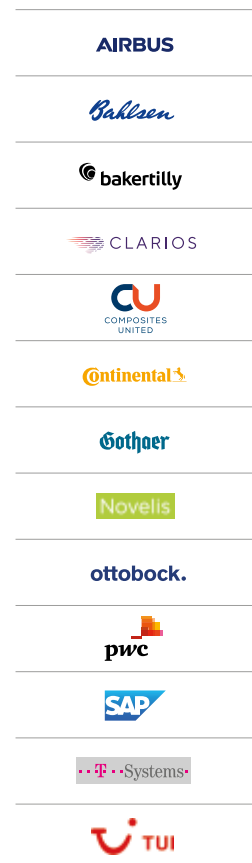
At PFH, our courses go beyond theory and deliver practical, hands-on experience through exciting projects with our partner companies. With regular internships in Germany and abroad, you'll gain valuable insights and a clear idea of what to expect in your future career.

Our curriculum also includes opportunities for studying abroad and experiencing different cultural environments, giving you a broader perspective for a successful and international career.



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