

M.Sc. Computer Aided Conception and Production in Mechanical Engineering (CAME)

CAME is designed to broaden and increase the knowledge and practical use of computer-aided simulation techniques in mechanical engineering. You can choose between two specializations – one design-oriented and one production-oriented – to best fit your career and research interests.

As a CAME Graduate you will

- ▶ design, apply and optimize cutting-edge computer modeling to the development of high-tech products
- ▶ implement computer simulation software and programs to enhance mechanical designs and production
- ▶ land top jobs in research institutes or the industry in the field of CAD, CAE, consulting and engineering



APPLY BY
15 January / 15 April
to secure our
Early Bird Discount!

1 Study Program, 2 Study Tracks: Choose your specialization with the **Conception** or **Production Track**.

- ▶ Advanced Software Engineering
- ▶ Advanced Finite Element Methods
- ▶ Numerical Methods in Mechanical Engineering
- ▶ German Language Course
- ▶ Continuum Mechanics
- ▶ Failure of Structures and Structural Elements
- ▶ Multibody Dynamics
- ▶ Nonlinear Structural Mechanics
- ▶ German Language Course
- ▶ Computational Intelligence in Engineering
- ▶ Artificial Neural Networks in Structural Mechanics
- ▶ Production Management A
- ▶ German Language Course
- ▶ Master Thesis

Electives (examples)

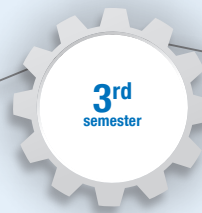
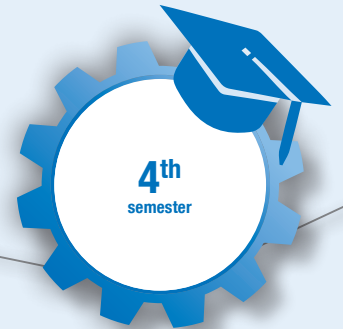
- ▶ Practical Introduction to FEM-Software
- ▶ Fundamentals of Light Weight Design
- ▶ Machine Design Process

Electives (examples)

- ▶ Porous Media Mechanics
- ▶ Computational Fluid Dynamics I
- ▶ Intelligent Monitoring of Engineering Systems
- ▶ Simulation of Discrete Event Systems

Electives (example)

- ▶ Molecular Mechanics and Multi-Scale Modelling of Materials
- ▶ Modelling, Model Reduction and Simulation in Laser Processing
- ▶ Mini Thesis or Industrial Internship



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**INTERNATIONAL
ACADEMY**

**RWTHAACHEN
UNIVERSITY**



M.Sc. Degree Program (RWTH)



2 years | 120 ECTS



**B.Sc. | B.Tech. | B.Eng.
1 year work experience**



VR 145 | QR 160 | AW 3.0



EUR 22,000 *



English taught



**Apply before
1 March (Non-EU) | 15 July (EU)**

* 4 Semester Installments of EUR 5,500