



## **Carl Benz School of Engineering**

Mechanical Engineering College of the Karlsruhe Institute of Technology

# **Bachelor of Science in Mechanical Engineering (International)**

**Karlsruhe, Germany | English-Taught**

# B.Sc. in Mechanical Engineering (International)

As Mechanical Engineering College of the worldwide renowned Karlsruhe Institute of Technology (KIT), the Carl Benz School offers a high quality undergraduate Bachelor program as well as Summer Schools in Mechanical Engineering. The international programs are English-taught and perfectly prepare students from all over the world for engineering careers.



## BACHELOR OF SCIENCE (B.SC.) OF THE KIT

3 Years (6 Semester)

### SPECIALIZATION & BACHELOR THESIS (Semester 5 - 6)



#### Special: Smart Projects

SmartFactory@Industry | SmartCoop@KIT | SmartScience@KIT

#### Global Production Management



Global Production Engineering  
Global Logistics | Virtual Engineering  
Automated Production Systems

#### Automotive Engineering



Automotive Engineering  
Vehicle Ride Comfort & Acoustics  
Machine Dynamics

#### Energy Engineering



Technical Combustion  
Heat & Mass Transfer  
Fundamentals Energy Technology

### ADVANCED COURSES (Semester 5 - 6)

Machines & Processes | Fluid Mechanics | Measurement & Control Systems | Production Operation Management

### FUNDAMENTAL COURSES (Semester 1 - 4)

Advanced Mathematics  
Computer Science in Mechanical Engineering  
Material Science

Mechanical Design  
Engineering Mechanics  
Manufacturing Technology  
Electrical Engineering & Electronics

Advanced Engineering Mechanics  
Advanced Mechanical Design  
Technical Thermodynamics  
Wave & Quantum Physics

### PRE-SEMESTER (Preparatory Course)

**ADDITIONAL SOFT SKILL COURSES:** e.g. International Project Management | Intercultural Training | Academic Writing | Professional Application & Interview Preparation | Technical English | German Language Courses

## Excellent Location



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The Carl Benz School of Engineering is located in Karlsruhe, Germany's Technology Region No. 1.

By train, Karlsruhe is one hour away from Frankfurt International Airport.

## Central Location



As Carl Benz School is the Mechanical Engineering College of the KIT, our students are part of the comprehensive university infrastructure of the Karlsruhe Institute of Technology and benefit from e.g. 24/7-Library, Dining Hall, KIT Sport Programs, Formula Student Team and other student initiatives.



# Join the CBS College Program

## A core part of the student experience

Carl  
Benz  
School

The College Program was developed over the past 20 years to provide international students the tools, skills, and experiences they need to achieve academic and professional success. Dedicated student counselors and a close student community have their back so they can focus on what's important. Within the College Program, our students enjoy:



### Study Counselling & Career Guidance

CBS provides students with support by offering individualized study guidance as well as helpful career guidance workshops to prepare them for a smooth start into their careers.



### Secure On-Campus Housing

We guarantee to at least 50 first-year College Program students a room in our campus dormitories in the heart of Karlsruhe where academic and leisure activities can be found under one roof.



### Mentoring Program

A gentle start into the academic world: The mentors are the first contact persons in the institutes and foster the understanding for research in Mechanical Engineering at the KIT.



### Smart Projects

SmartFactory@Industry, SmartCoop@KIT and SmartScience@KIT are an integral part of the College Program experience that combine academic study with practical experience to develop a versatile academic and professional profile.



### Administrative Support

College Program Participants gain access to the CBS Student Office as a central point for support in academic procedures: translation of official documents, arrival support, assistance on emergencies and facilitation of the University registration process.



### Social Events & Teambuilding

At Carl Benz School, students can take part in Social Events as our Welcome Back Events, Bachelor Presentations, Graduation Ceremonies, Movie Nights and many more.



### CBS Language Courses

Our CBS Language Courses as a part of the College Program contain Technical English, Intercultural Communication as well as German as a foreign language. In small groups, students can choose between levels A1, A2, B1 and B2.



### Academic Support Program

Through the Academic Support Program, students receive the opportunity for exclusive contact to esteemed KIT lecturers, allowing for a more guided academic development.



### Strong Industry Network

In order to facilitate first steps into industry, CBS offers e.g. excursions to industry partners and industry training programs as part of the CBS College Program. Students will be able to build up networks with potential employees at a very early stage.



Johannes Schubert,  
CBS Alumnus, Mentor

*As an alumnus of CBS, it is an affair of the heart for me to pass on my expertise and experiences to current students and to support them facing the challenges of their studies. I am looking forward to many interesting conversations as part of the CBS mentoring program.*



*It has been very helpful to get in touch with someone who had been at a similar stage in their career as me. The program has helped me gain perspective on my career choices.*

Dhruvin Dalal, CBS Student, Mentee



*Smart Factory@Industry gave me insights into the working life and great exposure to a fast-paced, technology-focused industry. The program introduced me to the department at Daimler where I am currently working.*

Isha Ghandi, CBS Alumna, Photo: Daimler AG

World-class Mechanical  
Engineering



QS Employability Ranking #10 #46

#1 Germany

Europe | Worldwide

## Carl Benz School Admission Requirements

- The application period for a new intake starts in December each year. To start your studies in the following October, you need to apply before the April 30<sup>th</sup> deadline. The Pre-Semester is offered each August.
- High School Degree (recommended: IB, GCE A-level, Abitur, US HD with APs)
- Excellent Grades in Mathematics & Physics (e.g., HL or AP)  
Math & Physics must be taken as subjects in the last two years of your high school education
- SAT (Math & Evidence-Based Reading & Writing; at least 1.200 points)
- English Proficiency Test (e.g. TOEFL, IELTS, CAE, CPE or UNICert)
- Motivation Letter

Please visit our website on a regular basis for more information and the latest updates.

[carlbenzschool.kit.edu/admission-requirements.php](http://carlbenzschool.kit.edu/admission-requirements.php)



## Costs per Semester (6 months)

Fees	EUR
Bachelor Program (College Fees)	7,000
Enrolment Fee KIT (EU/EEA Citizens)	≈ 165
Enrolment Fee KIT (Non-EU Citizens)	≈ 1,665
<b>Estimated General Living Expenses*</b>	
Rent (Single Room)	3,300
Food	1,400
Pocket Money	900
German Health Insurance	480
<b>Yearly Average Costs (EU/EEA Citizens)</b>	<b>26,490</b>
<b>Yearly Average Costs (Non-EU/EEA Citizens)</b>	<b>29,490</b>

\*More information: [carlbenzschool.kit.edu/costsandfees.php](http://carlbenzschool.kit.edu/costsandfees.php)

## FIELD TRIPS – COMPANY VISITS – WORKSHOPS – CAMPUS TOUR



### For High School Students: **Take a Sneak Preview!**

During summer, we offer technically interested high school students from age 16-19:

#### ■ CBS Summer Schools in Karlsruhe, Germany

June 5 - 9, 2023

July 3 - 7, 2023

July 10 - 14, 2023

#### ■ Summer Engineering Academy in Suzhou, China

August 2 - 4, 2023

Our Program Consultants are happy to help you!



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Please visit our website for more information.  
[carlbenzschool.kit.edu/summer-programs.php](http://carlbenzschool.kit.edu/summer-programs.php)



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