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BSc Mechanical Engineering (International) at Carl Benz School • Karlsruhe Institute of Technology
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<td><strong>Programme duration</strong></td>
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<tr>
<td><strong>Beginning</strong></td>
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| **More information on beginning of studies** | Beginning of the winter semester: October  
Beginning of the pre-semester: August |
| **Application deadline** | 30 April for the following winter semester |
| **Tuition fees per semester in EUR** | 7,000 |
| **Additional information on tuition fees** | The Carl Benz School of Engineering holds a college structure within the Karlsruhe Institute of Technology (KIT), which is why the specific college fee applies in addition to the university enrolment and tuition fees for non-EU students. The college fee covers academic learning and additional services that are provided by the Carl Benz School.  

[www.carlenzschool.kit.edu/costsandfees.php](http://www.carlenzschool.kit.edu/costsandfees.php) |

| Joint degree / double degree programme | No |
| Description/content | The Carl Benz School of Engineering offers high school graduates the opportunity to study German Mechanical Engineering in English. The three-year Bachelor’s programme aims at preparing future engineers for a successful career.  

The Mechanical Engineering College of the world-renowned Karlsruhe Institute of Technology (KIT), ranked first place in Mechanical Engineering of all German universities, offers high-quality lectures by excellent professors of KIT. All students receive an individualised all-in-one service package, |
support, and mentoring in order to develop their professional profile.

While Mechanical Engineering classes at KIT allow for 600 students in the first semester, the Carl Benz School admits a maximum of 50 students.

The Bachelor’s programme is divided into core studies concluding with a specialisation in Energy Engineering, Automotive Engineering, and/or Global Production Management.

Many graduates are keen to step into the German labour market. To facilitate this, we offer services such as career guidance, industry training programme, and company visits. We also host industry representatives.

In the course of their Mechanical Engineering studies, Carl Benz School students choose to specialise in (at least) one of the following topics: Global Production Management, Automotive Engineering, Energy Engineering

Benefits for our students in the CBS College Programme:

- World-class Mechanical Engineering course
- Elite teaching staff
- International atmosphere
- Individualised mentoring & career guidance
- Study counselling
- Secure on-campus housing
- Smart Projects
- Academic and administrative support
- CBS Language courses

Course Details

Course organisation

At the Carl Benz School, students begin with developing their skills with fundamental courses (semesters one through four). In the last year of their studies (semesters five and six), the students can choose, according to their interests and strengths, between the specialisations of Automotive Engineering, Energy Engineering, or Global Production Management. In this way, they are given the opportunity to specialise in one of the most promising subjects relevant for the future of engineering.

Global Production Management:

The management of production is a vital key to the operation of companies. This specialisation opens doors to countless career opportunities.

Students learn about production planning and control, production logistics, distribution centres, optimisation of logistical networks, material flow processes, and project management. The evaluation of methods in terms of technical and economic aspects and virtual product development processes (product life-cycle management) are also important. Students who select this specialisation receive the opportunity to take part in an industry training programme at Daimler, Bosch, or ZEISS, working on smart factory related topics, e.g., innovative products, developing of robots for production, or smart maintenance - with a chance of a subsequent Bachelor’s thesis with the company.

Automotive Engineering:

At KIT, more than 40 institutes with 800 scientists are researching for safer, more comfortable, and more efficient cars. Students who choose the major in Automotive Engineering profit from the fact that the automotive industry is Germany’s largest industry sector, with a turnover of approximately 263 billion EUR, covering 20% of the overall turnover of Germany’s industry. Five million people are employed by the automotive industry and their suppliers. Ten out of the 100 largest automotive suppliers have either their headquarters or one of their subsidiaries in or near Karlsruhe.

Energy Engineering:
The specialisation in Energy Engineering is the best choice for those who want to pursue a future career in an ever-expanding and increasingly important sector.

Students learn about forms and sources of energy, energy production, and storage. They also study the management of energy as well as the utilisation of renewable energy sources. They learn about economic efficiency in the energy industry and the understanding of technical combustion systems, e.g., engines and turbines.

The Bachelor’s programme is completed by supplementary studies, such as language courses, career workshops, academic writing, cultural studies, as well as networking and social events. Besides the academic demands, the students are also encouraged to do a traineeship or participate in the hands-on industry training programme Smart Factory@Industry. This experience will foster their career perspectives and provide them with an industry network during their studies.

**International elements**

- Language training provided
- Training in intercultural skills
- Study trips
- Projects with partners in Germany and abroad
- International comparisons and thematic reference to the international context

**Integrated internships**

In addition to the academic demands, students are also encouraged to complete an industrial internship. Smart Factory@Industry, our hands-on industry training programme, is new and globally unique. The traineeship at one of our German industry partners (Daimler, Bosch, or ZEISS) will foster the career perspectives of our students, and it will provide them with an industry network including potential employers at a very early stage of their academic careers. The programme is rounded off by supplementary studies, such as language courses, cultural studies, soft skills courses, and social events.

**Costs / Funding**

<table>
<thead>
<tr>
<th>Description</th>
<th>Cost</th>
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<tbody>
<tr>
<td>Tuition fees per semester in EUR</td>
<td>7,000 EUR</td>
</tr>
<tr>
<td>Additional information on tuition fees</td>
<td></td>
</tr>
<tr>
<td>The Carl Benz School of Engineering holds a college structure within the Karlsruhe Institute of Technology (KIT), which is why the specific college fee applies in addition to the university enrolment and tuition fees for non-EU students. The college fee covers academic learning and additional services that are provided by the Carl Benz School.</td>
<td><a href="http://www.carlbenzschool.kit.edu/costsandfees.php">Website</a></td>
</tr>
<tr>
<td>Semester contribution</td>
<td>Approx. 150 EUR</td>
</tr>
<tr>
<td>Costs of living</td>
<td></td>
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<tr>
<td>The estimated general living expenses per month for a single student are as follows: public transportation: approx. 34 EUR, food: approx. 170 EUR, pocket money: approx. 150 EUR, compulsory German health insurance: approx. 34 EUR</td>
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# Requirements / Registration

## Academic admission requirements

The Carl Benz School provides 50 places in its Bachelor’s programme. The fundamental criteria for admission are excellent grades in mathematics and/or physics (top 80% of class). Furthermore, applicants need to have passed an English language test (if English is not their mother tongue or language of education).

Applicants need to meet the following criteria:

- High school degree (recommended: International Baccalaureate (IB), A levels, German Abitur or similar)
- Standard SAT test (maths & evidence-based reading and writing) with max. 1,200 points
- Excellent grades in mathematics & physics (recommended: higher-level mathematics and physics [and chemistry] for the last two years)
- English language proficiency (native language, primary language of instruction for secondary education or TOEFL/IELTS language testing)
- Motivation Letter

Additional information on the general admission requirements:

- In some countries, high school ends after the 11th, 12th or 13th year. As long as proof of official examination of high school education in the country the student graduated from has been successfully shown, applicants are eligible to apply.
- Transcripts with excellent grades in maths and physics, a proven strong interest in studying engineering and motivation to excel in one’s studies increase one’s chances for admission.

For more information, please visit our [website](#).

<table>
<thead>
<tr>
<th>Language requirements</th>
<th>Applicants must provide at least:</th>
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<tbody>
<tr>
<td></td>
<td>TOEFL (88 Internet-based test)</td>
</tr>
<tr>
<td></td>
<td>IELTS (band score of 6.5)</td>
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</table>

If your mother tongue is English, no test is needed. If English has been the language of instruction of your education, please include a form signed by your school stating how long you have been studying in English.

### Application deadline

30 April for the following winter semester

### Submit application to

Please apply through the Karlsruhe Institute of Technology’s online portal: [https://bewerbung.studium.kit.edu/prod/campus/Portal/Start?l=en](https://bewerbung.studium.kit.edu/prod/campus/Portal/Start?l=en)

## Services

### Possibility of finding part-time employment

E.g., student assistant jobs at the university

### Accommodation

The Carl Benz School is integrated on the campus of the International Department of the KIT with its own campus accommodation. **Carl Benz School guarantees a room for all first-year**
undergraduate students. The campus offers single and double rooms, which are distributed over three floors. All rooms are comfortingly furnished and include an en-suite bathroom. Groups of four to six students share one modern kitchen as well as a dining and working area.

For further information, see our website:
https://www.carlbenzschool.kit.edu/on-campus-housing.php

Career advisory service
Carl Benz School offers individualised study & career guidance through the College Programme:

The programme is an integral part of the BSc programme and includes workshops on learning styles and techniques, time management, taking notes as well as efficient exam preparation, academic writing, and career planning. In addition to these sessions, students meet with student counsellors once per month to discuss and evaluate their progress and to define further steps.

Students making use of the CBS Study & Career Guidance are going to benefit from the development of solid soft skills. The students will get prioritised assistance when applying for internships. They will also receive a certificate which is a great asset when applying for an advanced internship or even the first job. Furthermore, special events, extra tutorials, and a guided study group programme are offered within this supplementary programme.

Specific specialist or non-specialist support for international students and doctoral candidates
- Welcome event
- Buddy programme
- Tutors
- Accompanying programme
- Specialist counselling
- Cultural and linguistic preparation
- Visa matters
- Pick-up service
Leading German University for Engineering

The Carl Benz School of Engineering (CBS) is the mechanical engineering college of the top university Karlsruhe Institute of Technology (KIT). Students who choose CBS choose one of the leading universities in Mechanical Engineering in Germany and worldwide. The programme combines excellent lectures with small classes, direct contact with professors, and early contact with industry.

more:
https://www.youtube.com/watch?time_continue=1&v=sxnS93mPia0

Karlsruhe Institute of Technology

As "The Research University in the Helmholtz Association", Karlsruhe Institute of Technology (KIT) fully utilises its synergistic potential, which results from combining tasks of national research with those of a state university. To fulfil its three core tasks of research, higher education, and innovation, KIT is organised in five divisions: Biology, Chemistry, and Process Engineering; Informatics, Economics, and Society; Mechanical and Electrical Engineering; Natural and Built Environment; and Physics and Mathematics. KIT has been successful in important rankings, for example, those of the Times Higher Education journal (THE).
KIT’s research profile is determined by the disciplines pursued and by work on topics sharpening this profile. In response to society’s demands, a particular focus is placed on energy, mobility, and information. Excellent young scientists are strategically recruited and supported. Eight KIT centres pool joint research activities across disciplines. These include the following: energy; information/systems/technologies; mobility systems; elementary particle and astroparticle physics; climate and environment; materials; mathematics in sciences, engineering, and economics; humans and technology.

KIT stands for a research-oriented and student-oriented teaching and learning culture. After having completed their studies, students are prepared for assuming responsible positions in a globalised world with densely networked media. Studies at KIT enable students to develop sustainable solutions with the help of scientific methods. Study programmes have an international orientation. KIT offers Bachelor’s and Master’s programmes in both German and English. Eleven KIT departments organise all higher education activities and academic affairs. These include the following: architecture, civil engineering, geosciences, and environmental sciences, chemistry and biosciences, chemical and process engineering, electrical engineering and information technology, humanities, and social sciences, informatics, mechanical engineering, mathematics, physics, as well as economics and management.

KIT understands the application of scientific findings as a basic principle. KIT’s research and innovation activities are in line with the federal government’s high-tech strategy and the continued Joint Initiative for Research and Innovation of Germany’s federal and state governments and science organisations. This enhances the networking of good education, excellent fundamental research, and applied research in science and industry.

As part of the internationally renowned Karlsruhe Institute of Technology (KIT), the Carl Benz School offers a high-quality undergraduate Bachelor’s programme as well as summer schools in mechanical engineering in a college-like structure. The international programmes are English-taught and perfectly prepare students from all over the world for engineering careers. Furthermore, students in the CBS College Programme benefit from an individual study and career guidance as well as exclusive on-campus housing in one of the safest regions worldwide.

University location

KIT’s campus lies on the Kaiserstrasse, the main street of Karlsruhe, and it borders on the Hardtwald Forest, a perfect place to take a stroll. The campus is almost 60 hectares large. The proximity to Alsace and the mild climate of the Rhine River gives the Baden metropolis an almost Mediterranean flair in the summer. Known worldwide, the city has a fan-like ground plan thanks to the Margrave Karl Wilhelm von Baden-Durlach. Founded in 1715, Karlsruhe is the second-largest city in the federal state of Baden-Württemberg.

It is also known as the ”Residence of Justice“ because the seat of Germany’s two supreme courts (the Federal Constitutional Court and the Federal Supreme Court) is located in Karlsruhe.

Karlsruhe lies in south-western Germany on the western edge of Baden-Württemberg and has over 300,000 residents. Located on the river Rhine, the city area borders on the federal state of Rhineland-Palatinate in the north-west and the country of France in the west.

In Karlsruhe, welcoming new citizens has a special significance and tradition. This is reflected by the fact that the ”Bürgerstiftung Karlsruhe“ rewrote the original ”Privilegienbrief“ (Charter of Rights), with which the city’s founder attracted new inhabitants. It was rewritten as the ”Karlsruher Bürgerbrief“ in 2015.

Karlsruhe enjoys many diverse leisure, culture, and sports options, which offer something for everyone. The city boasts a wide variety of cultural attractions, including the Baden State Theatre, numerous private theatres, cinemas, museums, and art galleries. ”Das Fest“, one of Germany’s largest open-air festivals, takes place in Karlsruhe once a year.

The local economy is based on a well-developed structure of medium-sized businesses, particularly in forward-reaching technologies such as computer science, multimedia, control systems, energy technology, and environmental science as well as nanotechnology. Several major companies, among them Bosch, Siemens, Daimler AG, and Michelin, have production facilities in the region. Major research and development institutions (e.g., Fraunhofer Institute, Intel research campus) are part of the reason why the innovative potential of this city and region are well known worldwide.
International Programmes in Germany - Database

www.daad.de/international-programmes
www.daad.de/sommerkurse

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