

Electrical and Computer Engineering

Constructor University Bremen
Bachelor of Science



Program

Communications and digital signal processing

Over the past few decades, significant advancements in microelectronics have spurred a digital revolution, placing computers at the forefront of technological progress. While the conventional image of a computer is often associated with desktops or laptops, digital computing and digital signal processing now play a crucial role in numerous products that shape our daily lives, including cars, mobile phones, tablets, cameras, household appliances, and more. The Electrical and Computer Engineering (ECE) program centers on communications and digital signal processing, with a specific focus on the foundational digital processing elements and their programming. These foundational technologies are predominantly encompassed under the umbrella term of embedded systems.

Key facts

Place: Constructor University, Bremen, Germany

Tuition: 10.000€ per semester + 4.250€ on-campus room and board (shared room, shared bathroom, full meal plan, per semester)

Fall intake 2025: Apply by June 1 (global) and July 15 (for applicants who do not need a visa). Start last week of August (orientation week), first week of September (classes)

Scholarships: All students are considered for an academic achievement scholarship based on their school grade point average (GPA). EU students are eligible for a minimum guaranteed scholarship of 4.000€.

Duration: 3 years full-time

Financing options: Each admitted candidate will receive an individual financial package.

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UNIVERSITY

Contact

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Or use the [contact form >](#)

Career

Career perspectives

The Electrical and Computer Engineering (ECE) program at Constructor University addresses a high demand for engineers in Germany and worldwide, as indicated by a recent survey by a German engineering association. The survey revealed that there is currently twice as much demand for Electrical Engineering and ECE engineers in Germany alone compared to the number of graduates, presenting ample job opportunities.

The ECE program at Constructor University is well-positioned to meet the increasing demands for engineers. This demand is not only influenced by general economic trends but is also attributed to unusually low student numbers in recent years. Rapid technological developments underscore the importance of fundamental principles and cross-disciplinary knowledge. The program's flexibility and transdisciplinary education respond effectively to these conditions, preparing graduates for successful careers.

Constructor University ECE graduates enjoy diverse career paths, starting in leading companies or research centers. The alumni have found employment in various sectors, including the aerospace industry, telecommunications, automotive and energy sectors, information technology, academia, research centers, management, consultancy, and even finance. The program's flexibility and transdisciplinary education contribute to the success of graduates in a wide range of industries and roles.

Constructor University ECE alumni have pursued further education at renowned institutions globally, such as TUM, EPFL, ETH, University of Edinburgh, KTH, Eindhoven, KU Leuven, Louvain, Politecnico di Torino, Berkeley, Rice, UCSD, and Constructor University itself. After completing their Ph.D., some alumni have engaged in research at universities and research centers like Fraunhofer, DLR, and OFFIS. Others have assumed teaching roles as professors or lecturers. Notably, some alumni have received prestigious industrial and research awards, demonstrating the program's success in fostering exceptional talent.

The Constructor University Career Services Center (CSC), Alumni Office, and faculty actively support students throughout their studies and career development. The CSC offers training and coaching in various aspects, including CV creation, cover letter formulation, interview preparation, effective presentation skills, business etiquette, and employer research. The Alumni Office facilitates the establishment of a long-lasting global network, proving beneficial for students exploring job options in academia, industry, and beyond. This comprehensive support system enhances the overall educational experience and success of Constructor University ECE graduates.

Application

Undergraduate application information

[Here](#)you can find out about deadlines, the application process and requirements to apply for your Bachelor's program at Constructor University.

Financing

Investing in education is a significant commitment to your future, and at Constructor University, we are dedicated to transforming it into an affordable reality for students worldwide. To achieve this, we provide personalized financing options tailored to help cover tuition fees. These packages may include various forms of financial assistance, such as scholarships, grants, and tuition deferrals. The deferred tuition fees are only repaid once you have successfully entered the job market, allowing you to concentrate fully on your studies without immediate financial burden. We firmly believe that a Constructor University education serves as an ideal foundation for your future career, and we are delighted to invest in your success.

Elektrotechnik