



Brandenburg
University of Technology
Cottbus - Senftenberg

SHAPING THE FUTURE TOGETHER

THE UNIVERSITY AT A GLANCE



SHAPING THE FUTURE TOGETHER

As a university of technology, we use our scientific expertise to develop practical solutions to address the major issues of the future and shape transformation processes around the world. We are aware of our special responsibility for driving progressive and sustainable development in the region. Our interdisciplinary clusters and close cooperation with scientific institutions and businesses enable us to define a clear image for ourselves, connect with the international community and carry out successful projects that help us overcome these challenges.

We offer our students a high-quality education, individual support and the opportunity to learn from and with one another in an environment shaped by curiosity and openness. Our diverse and inspiring campus life is created by students from Germany and around the world. During their studies, we offer them the chance to realise their potential and develop their future projects.

We see ourselves as part of the scientific community. Internationalisation is the source of our cultural diversity. It enriches our university life and promotes diversity in teaching and research.

All members of the BTU pull together as part of a close-knit community. Each and every one of us is essential to our university's success. We strengthen the skills and enthusiasm of our students and employees, encouraging them to effectively contribute their creativity and expertise. One of our university's key principles is respectful and transparent communication.

» www.b-tu.de/en

U-MULTIRANK

U-Multirank is the only global ranking with a total of 2,000 universities from 95 countries. It provides an independent, multi-dimensional overview of a university's performance based on more than 30 indicators from the areas of studies and teaching, research, knowledge transfer, international strategy and regional commitment. It is the only ranking system that takes into account a university's size and geographical location, allowing different institutions to be compared.

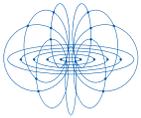
Since 2018, the BTU has been one of the 101 universities in Germany, repeatedly standing out as a top performer in various categories.

» www.umultirank.org



UNIVERSITY PROFILE

The BTU is fast becoming one of the most dynamic scientific locations in Germany. Our research is mainly conducted in the areas listed below. The hallmarks of our research are close partnerships with non-university research institutes and local federal institutions, and the development of an innovative campus in Lausitz Science Park.



ENERGY REFORM AND DECARBONISATION

The BTU is investigating technical solutions for climate change by focusing on key local research topics in the areas of energy generation, storage and consumption. We are also researching drive technologies for future mobility solutions. Our study programmes cover a range of innovative aspects in mechanical engineering, material sciences, electrical engineering and computer science, combining them in an interdisciplinary manner.



GLOBAL CHANGE AND TRANSFORMATION PROCESSES

Our university often takes an interdisciplinary approach to research on a range of topics, combining fields such as environmental science, climate change, urban planning and the economic and social effects of structural change. Our study programmes such as environmental resource management, world heritage studies and regional and urban planning – as well as other courses in environmental science, social sciences and economics – allow our students to focus on global change and transformation processes during their studies.



HEALTH AND LIFE SCIENCES

The establishment of a university medical centre in Cottbus is one of the largest and economically most important and sustainable projects within Lusatia's structural development process. We are cooperating with non-university research institutions and partners from the healthcare, nursing and technology sectors to develop the model region into an innovation hub for digitalisation in medicine. Our research also includes the field of molecular medicine, the development of new drugs and the use of stem cells.



ARTIFICIAL INTELLIGENCE AND SENSORS

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RESEARCH PARTNERSHIPS

The BTU is establishing, maintaining and reinforcing partnerships with a number of non-university research institutions, partner universities, major industrial partners, and small and medium-sized companies. These partnerships are reflected, for example, by our joint appointments, cooperative projects and economic cooperation for the transfer of technology.

RESEARCH ACHIEVEMENTS

The BTU is currently home to 181 professors who are supervising a total of 935 doctoral candidates. Our university offers them a highly stable environment for their work, especially after obtaining 47 million euros in third-party funding in 2021. While federal funds account for the lion's share, we have also obtained third-party funding from the European Union and the German Research Foundation. With a budget of around 95 million euros as the basic allocation from the state, the BTU's third-party funding makes up around 50% of this amount. In addition, a total of 1,170 academic papers have been published.

PROMOTION OF YOUNG RESEARCHERS

The BTU offers tailored funding and qualifications for doctoral candidates through its Graduate Research School. Our university's international strategy for the promotion of young researchers also includes three PhD programmes in the fields of heritage studies, environmental and resource management, and dependable systems. In addition, the BTU is involved in the »Postdoc Network Brandenburg«, which is an alliance of Brandenburg-based universities that aims to promote the career development of post-doctoral researchers.

RESEARCH SERVICES

The Research Department and the Technology and Innovation Office within the Transfer of Knowledge and Technology Department offer BTU scientists a comprehensive service for all aspects of research projects involving third-party funding and support throughout the entire process – from advice on funding programmes to administrative support for projects and help in applying for research awards and launching a business partnership. This is the first point of contact for any researchers interested in such projects.

TRANSFER OF KNOWLEDGE AND TECHNOLOGY

When exchanging our knowledge, resources and skills, our university is in constant dialogue with regional, national and international partners from business and society – with a key focus on current and future challenges.

CENTRE FOR CONTINUING EDUCATION

Our range of training courses and qualifications for specialists, executives and the general public have practical relevance due to our close ties to the world of business. Our educational formats such as training courses, certification schemes, further study programmes, extramural studies and open lecture series allow knowledge to flow from the university into the local region and in the opposite direction. www.b-tu.de/weiterbildung

»CAMPUS-X-CHANGE« RECRUITMENT FAIR

The largest trade fair for academic specialists in the state of Brandenburg takes place every year on the BTU's central campus with the aim of setting up internships, workshops, projects for final papers and graduate positions. www.b-tu.de/jobmesse

BTU TRANSFER DAYS

Our university showcases its performance at the annual BTU Transfer Day. This is where science and business come together to discuss modern technologies and cooperative opportunities – it's the ideal networking platform. www.b-tu.de/transfertag

TRANSFER PARTNERS

Für den Schnelleinstieg von Unternehmen zu Kooperationen mit der BTU gibt es Transferpartner aus der Professorenschaft, die einen guten Überblick über ihr fachliches Umfeld haben. Sie helfen Wirtschaftsunternehmen, die richtigen Partner aus der Wissenschaft an der BTU zu finden. www.b-tu.de/technologietransfer

»INNOVATION HUB 13« TRANSFER PROJECT

Seit 2018 etablieren die BTU Cottbus-Senftenberg und die TH Wildau mit dem InnoHub 13 erfolgreich vielfältige Transferformate (z. B. InnoMix) zur Vernetzung von Wissenschaft, Wirtschaft und Gesellschaft in der Region. www.innohub13.de

BTU ON SITE

The BTU has numerous locations that facilitate direct interactions between science, business and society. For example, we have teaching facilities in Spremberg and Finsterwalde, the Dock³ Lausitz centre of excellence at the Schwarze Pumpe industrial park and the start-up centre Startblock B2 in Cottbus.

» www.b-tu.de/wirtschaft

FACULTIES AND INSTITUTES

FACULTY 1

MINT – Mathematics, Computer Science, Physics, Electrical Engineering and Information Science

- › Institute of Electrical Engineering and Information Science
- › Institute of Computer Science
- › Institute of Mathematics
- › Institute of Medical Technology
- › Institute of Physics

FACULTY 2

Environment and Natural Sciences

- › Institute of Biotechnology
- › Institute of Materials Chemistry
- › Institute of Environmental Engineering
- › Institute of Environmental Sciences

FACULTY 3

Mechanical Engineering, Electrical Systems and Energy Systems

- › Institute of Digital Production, Quality and Logistics
- › Institute of Electrical Systems – Internet of Things
- › Institute of Electrical and Thermal Energy Systems
- › Institute of Lightweight Design and Value Chain Management
- › Institute of Process Engineering and Materials Science
- › Institute of Transport Technology

FACULTY 4

Social Work, Health Care and Music

- › Institute of Health
- › Institute of Instrumental and Vocal Performance and Teaching
- › Institute of Social Work

FACULTY 5

Economics, Law and Social Sciences

- › Institute of Philosophy and the Social Sciences
- › Institute of Law
- › Institute of Business Management
- › Institute of Economic Sciences

FACULTY 6

Architecture, Civil Engineering and Urban Planning

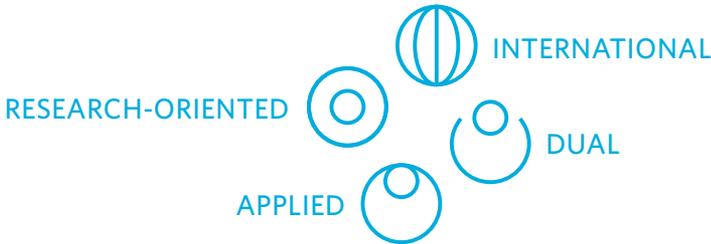
- › Institute of Architecture
- › Institute of History of Art and Architecture
- › Institute of Construction Engineering
- › Institute of Urban Planning

FACULTY OF HEALTH SCIENCES

This faculty emerged from the »Brandenburg Healthy Campus« initiative and is run by three different universities: the University of Potsdam, the Brandenburg University of Technology Cottbus-Senftenberg and the Brandenburg Medical School Theodor Fontane. www.fgw-brandenburg.de

TEACHING AND STUDIES

As educational paths become increasingly heterogeneous, the BTU continues to adapt to the relevant needs and requirements. That's why our university offers bachelor's programmes with different study profiles, including applied fields of study. Some of our study programmes are also offered as work and study courses.



As we also offer individual time models (e.g. full-time and part-time courses, study programmes for people in employment or further training courses), our students can balance their studies, career and family as well as possible. The range of study programmes offered by the BTU not only includes the natural sciences and engineering, but also economics, cultural studies and health sciences. Our young, international and innovative university guarantees a future-oriented education with the latest technical equipment, excellent support and innovative teaching concepts

INFORMATION AND ADVICE

The BTU gives you the opportunity to explore your own interests and abilities with numerous advice and support services. The aim of our comprehensive portfolio is to enable schoolchildren, high school leavers and people with professional qualifications to choose a study programme that suits their personal needs and to ease them in to their studies.

» www.b-tu.de/en/study/information-consultation

SUPPORT IN FINDING THE RIGHT STUDY PROGRAMME

If you don't yet know which study programme is best suited to your interests and abilities, you can get a better feel for things at the BTU Cottbus-Senftenberg. The orientation studies programme at the BTU was awarded the »University Pearl of the Year« by the Stifterverband für die Deutsche Wissenschaft in 2018.

» www.b-tu.de/orientierungsstudium

BACHELOR STUDY PROGRAMMES

research-oriented

- . Architecture
- . Artificial Intelligence *
- . Artificial Intelligence Engineering *
- . Building History and Art History *
- . Business Administration
- . Business Administration and Engineering
- . Civil Engineering
- . Computer Science
- . Digital Society *
- . Econometrics
- . Electrical Engineering
- . Energy Technology and Economics
- . Environmental and Resource Management
- . Environmental Engineering
- . Land Use and Water Management
- . Materials Chemistry
- . Mathematics
- . Mechanical Engineering
- . Medical Informatics
- . Medical Engineering *
- . Physics
- . Urban Development and Urban Planning

applied

- . Biotechnology
- . Business Administration
- . Business Administration and Engineering
- . Instrumental and Vocal Performance and Teaching
- . Midwifery Science
- . Nursing Science
- . Social Work
- . Therapy Science

* subject to approval from the Brandenburg Ministry of Science, Research and Culture (MWFK)

MASTER STUDY PROGRAMMES

research-oriented

- . Applied Mathematics
- . Architecture
- . Artificial Intelligence *
- . Artificial Intelligence Engineering *
- . Business Administration
- . Business Administration and Engineering
- . Business Law for Technology Companies
- . Civil Engineering
- . Climate-adapted Construction and Operation
- . Computer Science
- . Culture and Technology
- . Cyber Security
- . Electrical Engineering
- . Energy Technology and Economics
- . Environmental and Resource Management
- . Environmental Engineering
- . Euro Hydroinformatics and Water Management
- . Forensic Sciences and Engineering
- . Heritage Conservation and Site Management

- . Information and Media Technology
- . Materials Chemistry
- . Mechanical Engineering
- . Physics
- . Power Engineering
- . Transfers-Fluids-Materials in Aeronautical and Space Applications
- . Urban Design - Revitalization of Historic City Districts
- . Urban Planning
- . Vocational Education in Healthcare Professions
- . World Heritage Studies

applied

- . Biotechnology
- . Business Administration and Engineering
- . Electrical Engineering
- . Mechanical Engineering
- . Social Work

* subject to approval from the Brandenburg Ministry of Science, Research and Culture (MWFK)

CONTACT

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