Become a UTBM engineer
A different vision of the world

www.utbm.fr
Choosing UTBM means building your own career-plan through a tailored education program. UTBM boasts an internationally oriented scientific, technologic, human and entrepreneurial education, open to worldwide cultures. If you want companies to recognize you as the free and responsible person to whom they can entrust their work, come study at UTBM.

Ghislain Montavon
UTBM’s Director

At UTBM, you will benefit from a renowned engineering school program in a university environment.

---

**UTBM boasts**

- **3059** students (masters, phds, and engineering degrees)
- **423** course modules
- **5000** partner companies
- **40** partner universities
- **40** a budget amounting to €40 million
- **630** graduate engineers in 2017
- **196** international students
- **621** international students
- **232** partner universities
- **41** double-degree-students abroad
- **1** international campus in Shanghai
- **18.5%** new graduates work in 24 foreign countries
- **8264** graduate engineers since 1999
- **5000** partner companies
- **18.5%** new graduates work in 24 foreign countries

---
10 REASONS to choose UTBM

EMPLOYMENT PERSPECTIVES
→ It will take you no longer than 1.3 months to find your first job
→ 46.5% of our students are hired by the company where they have carried out their internship

A TAILOR-MADE EDUCATION
→ Education program built on your career plan
→ One meeting per semester with your personal tutor to guide you with your course program

THE HUMANITIES
→ Aim to train engineers to be good citizens, responsible managers and creative entrepreneurs

INTERNATIONAL
→ 9 foreign languages taught by native speakers
→ An international experience through a semester or an internship abroad

CTI QUALITY STANDARDS
→ Accredited by the CTI (French engineering accreditation institution)
→ A EUR-ACE quality assurance education

SALARY
→ Annual salary amounting to 36,500 € for your 1st job
→ +18% average raise during your first 3 years

STUDENT LIFE
→ Is open and accessible to all, it is overflowing with cultural and sporting events, packed with new initiatives and tried-and-true favorites
→ In the heart of a wonderful countryside

TEAM PROJECTS
→ Team management and project experience
→ Innovative projects under the supervision of researchers and companies
→ Technological projects with partner companies
→ A unique event called Innovation Crunch Time

SPECIALIZED TEACHING
→ 5 programs for engineering students
→ 4 programs for engineering apprentices

EDUCATION
→ A renowned Engineering School and University of Technology at the cutting edge of research & innovation
→ Tuition fees: 610 €/year
→ You can apply directly after your high school diploma or at any time before your 4th year of academic studies

Sources: 2017 Employment survey and 2016 activity report
You can apply at UTBM right after obtaining your high school diploma or integrate anytime before your 4th year of academic studies.
An education with strong Human values
Throughout your course curriculum, our teachers will train you to be internationally-oriented, environmentally-friendly engineers, who are considerate of others. We want our engineers to be critical, inventive and reflective in order to make technology meaningful. We want you to be highly trained professionals, and confident in the business world.

We offer eight different Humanities-related-courses
• Art and digital design
• International careers
• Entrepreneurship
• Ethics and corporate social responsibility
• Innovation and technological change
• Business management
• Telework and innovation
• Free course selection

Choose between 9 languages
German, English, Arabic, Chinese, Korean, Spanish, Italian, Japanese, Russian
International certified exams in five of these nine taught-languages.

Go abroad for an International experience
You are required to go abroad whether for an internship or a semester of studies within your engineering studies at UTBM. Studying abroad will make it easier for you to adapt to different environments and situations and will allow you to improve your language skills while giving you a completely new perspective of the world.

With the ECTS (European Credit Transfer System), UTBM enables its students to follow classes all around the world. Furthermore, you will be given the chance to prepare a dual diploma with a partner university such as HE-ARC in Switzerland, UQAC in Canada, Universidad de Oviedo in Spain, and National Central University (NCU) in Taiwan.

International campus
We boast 20% international students, which represents more than 50 different nationalities. We value the diversity created by this international presence.

You can apply to UTBM right after obtaining your high school diploma through to your 4th year of academic studies.
We boast an outstanding economic environment. UTBM is at the heart of the biggest industrial region of France where many technological industries are situated in the Belfort-Montbéliard area. From its creation, UTBM has developed close business links with numerous companies, from global leaders to small high-tech companies. This closeness with the industrial world is one of our biggest strengths.

THE FOLLOWING COMPANIES HIRE OUR ENGINEERS:
The industrial internship built into the syllabus will give you a glimpse of your future life
Benefit from outstanding intern experiences, 46 to 56 weeks possible
→ A 1-month long industrial internship
→ A 1-month internship abroad during your 2nd year
→ A professional 6-month internship during your 4th year
→ A 6-month end-of-term project during your 5th year
The internship service will help you identify and approach the companies corresponding to your needs and wishes in France or abroad.

Our courses are taught by engineers and working managers
These industrialists, whose experience brings a unique perspective to UTBM, teach more than 13% of our courses.

Code name P2i
This innovative industrial project is a particular feature of UTBM. Students are immersed in a company or research lab where they work in teams and have to comply with specifications, a budget, and a project plan.

Companies work side by side with students
At UTBM, we hold job conferences, technical conferences, and other conventions. Students can also always get in touch with UTBM tutors or graduates ready to help them develop their career plan.

Innovation Crunch Time
You will work on a multidisciplinary project on topics suggested by our industrial partners over a period of 4 days.

Pathway towards employment
At UTBM, the BAIP (student support office) establishes the link between our students and companies. The BAIP boasts a network of 3000 companies, which provide useful contacts to students.

/ Direction for Industrial Relations / tel. +33 (0)3 84 58 30 96 / www.utbm.fr
WE OFFER

9 ENGINEERING PROGRAMS
COMPUTER SCIENCE

Specialization in Computer Science
/ for engineering students /

4 PROGRAMS

→ **Image, interaction and virtual reality**
To become an expert in digital image processing (image analysis, modeling, simulation, animation, and human-computer interaction)

→ **Networks and telecommunications**
To specialize in data transmission, LAN to high speed internet, mobile communications, and distributed computing

→ **Software and knowledge engineering**
To design and develop software and databases and master business intelligence tools

→ **Embedded software and mobile computing**
To become an expert in embedded and mobile apps using specific systems, real-time computing and geolocation

Specialization in Computer Science
/ for engineering apprentices (sandwich course) /
in partnership with the ITII (institute of industrial engineering techniques) Nord Franche-Comté

1 PROGRAM

→ **Information Systems engineering**
To design and maintain complex information systems, conduct and run computing projects

IN WHAT FIELDS DO OUR GRADUATES TYPICALLY END UP?
Sources: 2018 Employment survey

- 68.5% in computer science
- 36.5% in software engineers
- 19% in systems/computer systems eng.
- 14% in consulting
- 13% in R&D, design
- 5% in production, techniques, maintenance and logistics
- 1.5% in management and business
- 1.5% in other fields
- 5% in production, techniques, maintenance and logistics
- 1% in management and business
- 1% in other fields

YOUR MISSIONS

→ To design, develop and deploy software, IT systems and networks for all kinds of industries and organizations
→ To model and collect the data of cyber-physical systems in order to improve performance

TO BECOME
Network administrators, Database administrators, software engineers, CIOs, project managers, commercial engineers, QA engineers, research engineers
YOUR MISSIONS
→ To design, control and innovate within energy management, electrical energy production, conversion, transport and distribution systems
→ To run development projects in electrical and energy engineering

DISCIPLINES
Electrical and electronic engineering, industrial computing, automation, digital/virtual/thermal simulation

ENERGY

Specialization in Energy
/ for engineering students /

4 PROGRAMS

→ **Electrical energy production**
  To develop and run conventional, renewable and hybrid power generating facilities

→ **Networks and conversion of electrical energy**
  To develop, design, and control conversion and storage energy storage systems
  To operate and monitor embedded and stationary electricity networks

→ **Electronics and embedded systems**
  To become an expert in: real-time control systems, monitoring, electric hybridization, electromagnetic compatibility, hybrid electric vehicles, railway electrification system

→ **Smart buildings and energy efficiency**
  To be a specialist in thermal buildings, smart homes, and ecological design
  To develop smart energy production and management systems

Specialization in Electrical engineering
/ for engineering apprentices (sandwich course) /
in partnership with the ITII (Institute of industrial engineering techniques) Nord Franche-Comté

1 PROGRAM

→ **Electrical engineering**
  To design, size, simulate and implement industrial electrical systems, run industrial and R&D projects, conduct tests and measures for QA

WHERE DO OUR GRADUATES WORK?
Sources: 2018 Employment survey

- 8.5% in consulting
- 7% in computer science
- 13% in management and business
- 42.5% in R&D, design
- 29% in production, techniques, maintenance, logistics
- 7% in project engineers
- 4.5% in test engineers
- 10.5% in Commercial engineers
- 11% in Process engineers
- 7% in Maintenance, control and production engineers

/ Energy Department / tel. +33(0)3 84 58 33 08 / www.utbm.fr
YOUR MISSIONS
- To manufacture a product, design a factory or a machine, develop a new process
- To run an industrial organization, lead a team or a project, harmonize the human and technical aspects (run machinery, optimize flow)

DISCIPLINES
Production technologies, industrial organization, quality, logistics, mechanical design, materials, automation, robotics, innovation, project management

INDUSTRIAL SYSTEMS ENGINEERING AND MANAGEMENT

Specialization in Industrial systems
/ for engineering students /

4 PROGRAMS

- **Innovation and process design**
  To produce cleaner, faster and, cheaper
  To handle, choose, maximize and develop production processes

- **Computer-aided engineering**
  To switch from virtual to reality, create an industrial system, and test it using mechanical engineering skills, automation, CAD (computer aided design), and digital factory

- **Logistics and industrial organization**
  To design and maximize internal and external logistics, organize and manage production while considering environmental issues (“green” logistics, reverse logistics)

- **Quality and industrial performance**
  To facilitate the continual improvement process (increase quality, reduce costs, reduce deadlines, improve work life, increase safety, reduce pollution) using technical, methodological (lean management, 6-sigma), and managerial skills

Specialization in Industrial logistics
/ for engineering apprentices (sandwich course) / in partnership with the ITII (institute of industrial engineering techniques) Nord Franche-Comté

1 PROGRAM

- **Logistics and industrial organization**
  To organize, model, optimize an industrial process and ensure the right product, at the right place, at the right time

WHAT DO OUR GRADUATES DO?
Sources: 2018 Employment survey

- 10% R&D, design
- 2% Others
- 10.5% Consulting
- 1% Computer science
- 7% Management, business

10% Production, techniques, maintenance, logistics
Industrialization engineers 19.5%
Production engineers 19.5%
Logistics engineers 10.5%
Quality engineers 9%
YOUR MISSIONS
→ To create innovative products using user-centric and environmentally friendly design
→ To design, structure, develop and assess innovative mechanical systems, and workplaces complying with technical requirements and standards
→ To incorporate the professional expertise of both the ergonomist and the industrial designer into projects

TO BECOME
Design engineers, engineering-designers, ergonomics engineers, directors of continuous improvement and workplace ergonomics, head of R&D, product managers, automotive or product engineers, innovation managers…

ERGONOMICS, DESIGN AND MECHANICAL ENGINEERING

Specialization in Mechanical Engineering and Ergonomics
/ for engineering students /

3 PROGRAMS

→ Ergonomics, innovation and design
To design useful innovative products by applying metrology and ergonomic assessment, collaborative engineering tools and advanced engineering techniques

→ Innovation and ecodesign
To use the eco-innovation techniques and tools for a sustainable design (environmentally-friendly and responsible design) by integrating low-carbon fuel and light-weight materials for vehicle weight reduction

→ Industrial design and product development
To work efficiently and proactively with the designer to make useful innovative products attractive both in their functions and appearances
To optimize their design and take into account production processes and product requirements in perceived quality while making sure that they can be manufactured.

IN WHAT FIELDS DO OUR GRADUATES MAINLY END UP?
Sources: 2018 Employment survey

/ Ergonomics, Design And Mechanical Engineering Department / tel. +33 (0)3 84 58 30 13 / www.utbm.fr
MECHANICAL ENGINEERING AND DESIGN

Specialization in Mechanics
/ for engineering students /

4 PROGRAMS

→ Design and product development
To transform customers’ requirements into specifications, into innovative product concepts, and mechanical systems to prototypes

→ Materials science engineering applied to technological projects
To design and develop new products using materials and processes in accordance with social and ecological issues

→ Design of mechatronic systems
To design and run complex mechatronic systems including mechanics, computing, automation, and electronics

→ Modeling and optimization of thermo-mechanical systems
To use methods and digital calculation tools (modeling, simulation, optimization)
To understand and foresee the multi-physical phenomenon that affects thermo-mechanical systems

Specialization in Mechanics
/ for engineering apprentices (sandwich course) /
in partnership with the ITII (institute of industrial engineering techniques) Nord Franche-Comté

1 PROGRAM

→ Mechanical design for energy and transports
To design and size products as well as mechanical, thermomechanical, and mechatronic systems
To gain practical experience in innovative techniques applied in the transport and energy sector

WHERE DO OUR GRADUATES MAINLY WORK?
Sources: 2018 Employment survey

WHERE DO OUR GRADUATES MAINLY WORK?
Sources: 2018 Employment survey

3% in other fields
5% in computing
1% in management, business
15.5% in production, techniques, maintenance, logistics

69% in research, development & design
Design office engineers 38%
Design and development eng. 31.1%
Test engineers 5.5%
Research engineers 4%

15% in other fields
3% in computer science
5% in management, business
15.5% in production, techniques, maintenance, logistics
21.5% in research, development & design
Design office engineers 38%
Design and development eng. 31.1%
Test engineers 5.5%
Research engineers 4%
A DYNAMIC, CREATIVE, AND FRIENDLY CAMPUS
You will spend unforgettable years at UTBM

Our graduates can attest to that. The bright corridors of UTBM’s buildings designed by Roland Castro are bursting with energy and creativity.

ARE YOU FOND OF SPORTS, CULTURE, SCIENCE AND ENTERTAINMENT?
You will be spoilt for choice with many clubs and associations. Franche-Comté, only a 2-hour train ride from Paris, is one of the greenest regions of France. Nature lovers will be amazed.

LET’S NOT FORGET ABOUT THE EUROCKÉENNES ROCK FESTIVAL OR THE INTERNATIONAL STREET MUSIC FESTIVAL
Every day brings its share of surprises here.

For more information:
www.utbm.fr/playlist-etudiants