Materials Science and Technology

Introduction

UTT graduates majoring in Materials Science and Technology (MTE) benefit from a pluridisciplinary training in scientific, technological, economic and environmental fields. They play a key role at service interfaces. Their mission consists of dimensioning, characterizing, selecting and implementing materials, with an overarching approach to comply with industrial and social constraints.

UTT-MTE offers 3 specialties focusing on processing matter, ranging from procurement to transformation and recycling.

- **Economics of materials and the environment (EME)**: implementing eco-design, material life cycle analysis and recycling to prioritise environment compliance for manufacturing processes.
- **Material and component technology and trade (TCMC)**: controlling choice and use of materials in a given economic environment taking into account technological and economic constraints.
- **Material transformation and quality assessment (TQM)**: developing innovative materials (composites, nanomaterials, surface treatment compounds) thanks to proficiency in regard to physico-chemical properties of materials.

Professional opportunities in a variety of sectors

- Aerospace
- Automobile
- Nuclear power
- Life cycle analysis, environmental compliance certification
- Construction
- Metallurgy, plasturgy
- Material procurement

Stakes

The UTT is authorised by the CTI to deliver the engineering degree. More information here

Audience

**Prerequisites for enrolment**

- Bac
- Bac +1
- Bac +2

**Internship(s)**

Yes, Compulsory

**Rhythm**

- Full time
- With blocked release periods

Information

Université de Technologie de Troyes
Service des admissions et de la vie étudiante
12 rue Marie Curie, CS 42060
10004 Troyes cedex
admissions@utt.fr
03 25 71 80 35

https://www.utt.fr/formations/diplome-d-ingénieur/candidater-en-cursus-ingénieur/
What's next?

Level of education obtained after completion

Level of education obtained after completion

• Bac +5

Further studies

• Double degree at the UTT;
• Phd studies
programmeme

Generic courses

- Physico-chemical properties of materials
- Material characterisation and processes
- Project management and social sciences
- The environment
- Economics
- Transformation