

**Implementing advanced mechanical engineering processes and complex materials.**

## Introduction

UTT graduates majoring in Materials processes and Manufacture (MM) meet the complex needs of industry and material requirements inasmuch as they benefit from polyvalent training. They work in close contact with teams in the field and are capable of providing innovative solutions to various constraints facing enterprises.

This apprenticeship-based major, Materials and Mechanical Engineering (M&M), offer an alternative route to obtaining an engineering diploma. The programme is based on various UTT courses and also on the industrial partners who train the engineers. Over a period of three years, the engineering apprentice in M&M participates in/and/or manages industrial projects with the host company, ranging from VSEs to major international groups.

## Continuous interaction between the academic and industrial worlds

- Regular and concrete applications for course work at UTT : subject matters taught at UTT are in phase with the missions assigned to the apprentices by the host enterprise, thereby enabling them to valorise and apply their new academic knowledge directly.
- 3 to 9 months' experience abroad : over and above the mandatory 3 month internship abroad (in their second year), the M&M students can also spend their 5th semester either at UTT-Troyes or through admission at one of the UTT foreign university partners.
- Personalised tutoring : each apprentice student is monitored, by both a UTT tutor and an enterprise designated "master".

## Professional opportunities in a variety of sectors

- Aeronautics, railroad, automobile
- Biomedical, biomechanics
- Metallurgy, platurgy
- Energy-related equipment
- Forges and foundries

## Stakes

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

## Audience

### Prerequisites for enrolment

- Bac
- Bac +1
- Bac +2

## Internship(s)

Yes, Compulsory

## Rhythm

- Full time
- With blocked release periods
  - Apprenticeship

## Information

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03 25 71 80 35

[https://www.utt.fr/formations/  
diplome-d-ingenieur/candidater-  
en-cursus-ingenieur/](https://www.utt.fr/formations/diplome-d-ingenieur/candidater-en-cursus-ingenieur/)

## What's next ?

### Level of education obtained after completion

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- Bac +5

# Program

## Generic courses

- Strength of materials and mechanical engineering
- Manufacturing processes
- Design tools and methodology
- Quality assessment (QA) and industrial systems
- Project and entrepreneurial management
- Materials