

**meta4.**

Erasmus Mundus Joint Master  
in Manufacturing 4.0 by intElligent  
and susTAInable technologies

Two-year Master's programme jointly offered  
by **six universities** to facing the future challenges  
of Manufacturing 4.0



**#digital**  
**#clean**  
**#sustainable**  
**#smart**

[www.master-meta4-0.eu](http://www.master-meta4-0.eu)



With the support of  
**La Région**  
Auvergne-Rhône-Alpes



Co-funded by  
the European Union





meta4.0 is a two-year MSc programme (120 ECTS) jointly offered in English by

- Ecole Centrale de Lyon and especially its internal school in Saint-Etienne – ENISE (France),
- Polytechnic University of Turin (Italy),
- Technical University of Chemnitz (Germany),
- University of Ljubljana (Slovenia),
- Norwegian University of Science and Technology (Norway)
- Mines Saint-Etienne (France).



CENTRALE LYON  
ENISE



Politecnico  
di Torino



Univerza v Ljubljani



NTNU



TECHNISCHE  
UNIVERSITÄT  
CHEMNITZ



MINES  
Saint-Etienne  
Une école de l'IMT

#### Our main objective

Training a new generation of engineers with excellent multidisciplinary skills and knowledge to meet the future challenges of Manufacturing 4.0 in Digital, Clean, Sustainable and Smart Manufacturing.

## Year 1

### Semester 1

#### Fundamentals on processes

30 ECTS

Students will be taught the basics of production engineering and specific knowledge on a wide range of key manufacturing technologies.

 Saint-Étienne in France

### Semester 2

#### Fundamentals on materials

30 ECTS

This semester will be dedicated to materials for advanced manufacturing, materials design, materials forming and surface science and technology.

 Torino in Italy

Summer school\*

## Year 2

### Semester 3

#### Specialization with 4 possible tracks

30 ECTS

-  Digital Manufacturing  
Gjøvik in Norway
-  Clean Manufacturing  
Ljubljana in Slovenia
-  Sustainable Manufacturing  
Saint-Etienne in France
-  Smart Manufacturing  
Chemnitz in Germany

### Semester 4

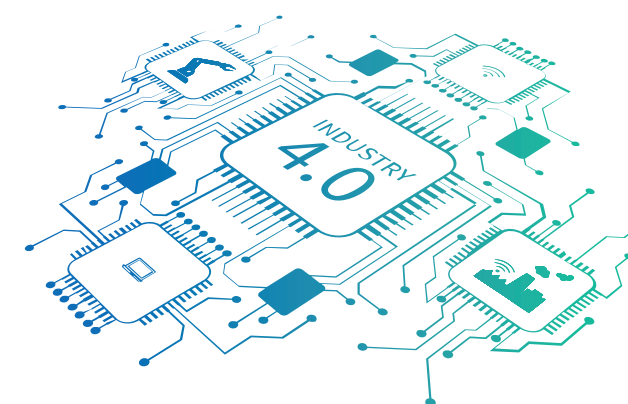
#### Work placement and Master thesis

30 ECTS

The Master thesis will be written based on 5 month work placement in industrial, applied research environment, research laboratory of a partner university, ...

**\*Summer school at the end of the first year :**  
specific management and entrepreneurial training modules summer schools in Italy, Norway, Germany and Slovenia.

This master has been designed, in close collaboration with several key industrial partners, to **respond to the needs of society and of the labour market.**



Becoming “greener” is expected to create more than 1 million jobs by 2030, while there are already currently 1 million vacancies in Europe for digital technology experts.

Today, 70% of companies report that they cannot find the people with the right skills.



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The Erasmus Mundus Joint MSc meta4.0 is supported by the European Union, which will fund 90 scholarships throughout the 4 editions of the programme.



#### Scholarships

**Consortium & Erasmus Mundus:**  
Up to 51 600 € for the entire duration of meta 4.0 programme (24 months).



#### Tuition fees

Programme country students: 4500 € / year  
Partner country students: 9000 € / year



#### Admission & Language

Sufficient proficiency in English (B2 level) is necessary. Prospective students must have at least Bachelor of Science or Engineering degree, i.e. an equivalent of 180 ECTS, in Mechanics, Mechanical Engineering, Materials science & Engineering, or potentially in Mechatronics Engineering.

**Application deadlines**  
**15th February**

More information  
and application procedure:  
[www.master-meta4-0.eu](http://www.master-meta4-0.eu)

