

MULTIPHASE

ERASMUS MUNDUS

JOINT MASTER DEGREE

Multiphase Systems for
Sustainable Engineering



MULTIPHASE
MASTER

ERASMUS MUNDUS

www.multiphase-master.eu



Politecnico
di Torino



MINES
Saint-Étienne



Institut Mines-Télécom

Technical
University
of Munich



● ABOUT US

We offer an Erasmus Mundus master in the booming field of Multiphase Systems : with the ambition of educating a new generation of industrial experts, engineers, and researchers, to bring the Chemical Industry into a new age based on sustainable processes, the circular economy and all the potential of digital tools.

It will help fill the skill shortage gap via the combination of strong research, excellent teaching, novel didactics concepts, and intersectorality with a strong industrial involvement.

● QUICK FACTS

STUDIES

- Small cohorts:
30 students approx.
Studying 2 years together
- 3 Master's degrees from
Top ranked universities:
Institut Mines-Telecom (IMT),
Politecnico di Torino (PoliTo)
and Technische Universität
München (TUM)
- 2-year International Master
Programme (120 ECTS)
- 2 Application seminars
- 1 Winter school

CAREER PATH

- Opening to PhD careers
- Highly qualified positions
in industry such as R&D port-
folio manager
- Academia

INTERNATIONAL

- All courses are
taught in English
- Dedicated Welcome Week
and student support



STRONG CONNECTION TO INDUSTRY AND RESEARCH

- Partnership with
19 industrial companies
(among which BAYER, VEOLIA,
CONTINENTAL, ORANO)
- 1 Project carried over the 2
years with one of the partners
(the student can choose a
Technical or Economical topic)
- On-site visits
- Job fair with
industrial partners

MAIN TARGETED STUDENTS

CHEMICAL ENGINEERING
MECHANICAL ENGINEERING
PHYSICS
CHEMISTRY

● PROGRAMME OVERVIEW AND MOBILITY SCHEME

SEMESTER 1 	SEMESTER 2 	SEMESTER 3 	SEMESTER 4
 			MASTER THESIS
FUNDAMENTALS	TECHNOLOGY	MODELING	MASTER THESIS
<ul style="list-style-type: none"> • Equalization • Theoretical foundations • Physics and chemistry of dispersed systems 	<ul style="list-style-type: none"> • Industry-oriented • Processes and technologies with multi-phase systems • Special focus on sustainable processes 	<ul style="list-style-type: none"> • Advanced numerical modeling foundations • Optimization of existing processes or design of innovative ones 	<ul style="list-style-type: none"> • Application of knowledge and know-how • In industry or academia • Write a master Thesis

● ELIGIBILITY

-  You have or expect to have a Bachelor of Science degree or an equivalent academic qualification
-  You are in the top 25% of your class
-  You have a proven proficiency in English

● SCHOLARSHIPS (EVERY YEAR)

- **Erasmus Scholarship:** participation fees funded + €1400 / month grant
- **Consortium Scholarship:** participation fees reduced to €2000 (for 2 years)
- **Self-funding:** participation fees of €9000 (for 2 years)

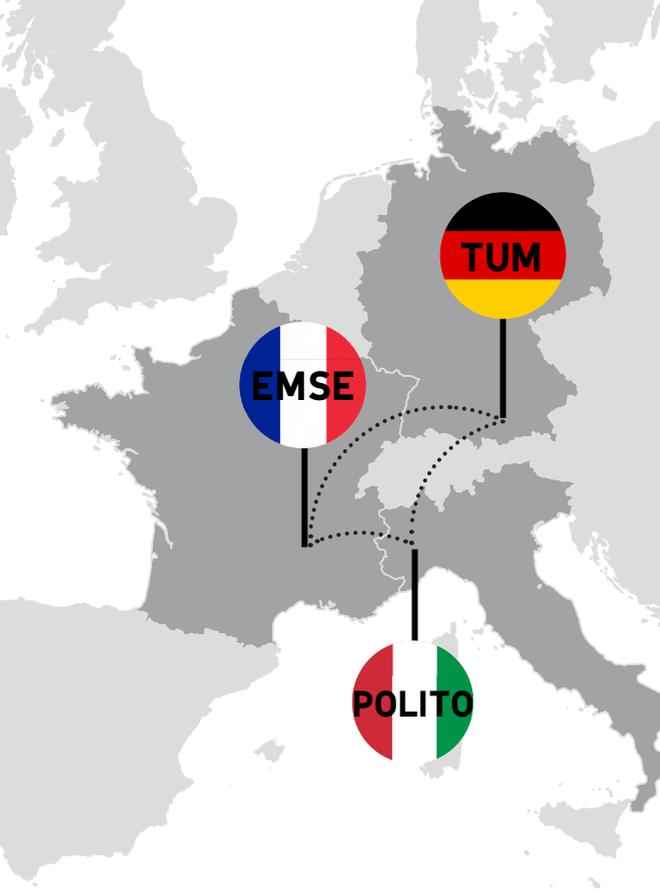
● AGENDA

CAMPAIGN FOR EMJM SCHOLARSHIP

- START**  JANUARY 5, 2024
- END**  FEBRUARY 29, 2024 @ 1:00 PM PARIS TIME

CAMPAIGN FOR SELF-FUNDED STUDENTS

- START**  MARCH 1ST, 2024
- END**  JUNE 30, 2024 @ 1:00 PM PARIS TIME



Mines Saint-Étienne

Politecnico di Torino

Technische Universität
München



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