

# INTERNATIONAL REVIEW

International news from Mines Saint-Étienne, France



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**Mines Saint-Étienne** to launch the "Multiphase Systems for Sustainable Engineering" Erasmus Mundus Joint Master

This new course is open to students from all over the world.

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**The Provence Microelectronics Centre** chosen to coordinate the European ICONIC project

This project aims to develop ultra-flexible AI electronic devices

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**International development** based on strong networks

Priority is given to consortium projects with prestigious universities

# EDITORIAL



Florence Granger, Director for International Development, Mines Saint-Étienne

For over two centuries now, Mines Saint-Étienne has enjoyed a solid reputation for education and research that extends well beyond the borders of France.

Ever-present in top international rankings\*, priding ourselves on innovation and excellence, we have continually

adapted our education programmes and campuses to the evolutions of developed societies and the successive waves of technological progress.

Our student and staff openness to the world is reflected in our ability to develop and manage key large-scale projects. To bring them to fruition, we rely heavily on our network of influential international partners.

On an international level, 2023 was a particularly prolific year with two new "Erasmus Mundus Joint Masters" programmes, several European consortium projects, a "European University" alliance, dynamic activities within the "T.I.M.E. Association" network and numerous international exchanges with the most prestigious universities around the world.

This newsletter highlights just a few of our inspiring international successes in 2023

\*Among the top 600 universities in the world in the prestigious THE (Times Higher Education) 2023 World University Ranking, and 201-240 in the QS World Rankings by subject. At national level, ranked 11th best Graduate School of Engineering (10th for the international aspect).

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Partnership Project



Teaching Project



European Research Project



## Mines Saint-Étienne to launch the “Multiphase Systems for Sustainable Engineering” Erasmus Mundus Joint Master



This new course is open to students from all over the world. In two years, the 32 students (including 22 scholarship

“With a budget of 5.5 million euros granted by Europe, we have a solid financial base to organize and launch the first four student cohorts.”

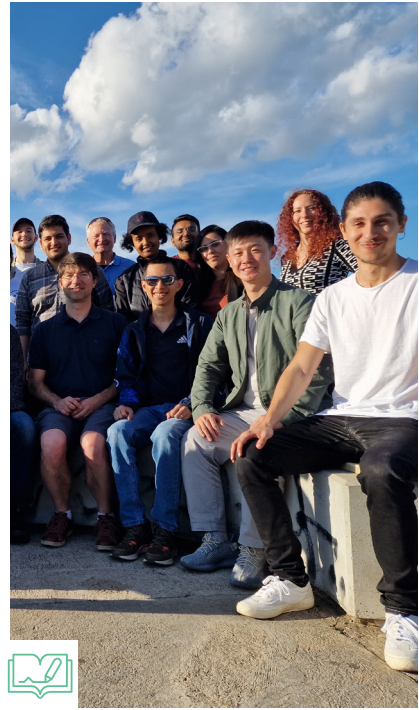
Olivier Bonnefoy, project leader and researcher attached to UMR CNRS 5307 LGF

holders) will gain expertise in polyphasic systems, systems made up of grains, bubbles and droplets. This course combining theory, practice and internships is resolutely international in its recruitment and its pedagogy with classes taking place at Mines Saint-Étienne (France), the Polytechnic School of Turin (Italy) and the Technical University of Munich (Germany).

Successful graduates will be awarded three Masters Diplomas at the end of the course, one from each institution.

Course launch date: September 2024.

## A Summer School dedicated to AI and the Industry of the Future



This 3rd edition took place in Saint-Étienne in July 2023.

Organized by Mines Saint-Étienne and led by Luis Gustavo Nardin, a lecturer in computer science and intelligent systems at our Henri Fayol Institute, in partnership with universities Poli USP, Politehnica University of Bucharest, T.U. Berlin, the event brought together around 40 students and staff from the business world both in person and remotely. Their objectives: a better understanding of AI in order to anticipate its concrete repercussions on Industry 4.0. Classes, conferences and hackathons were held at this event dedicated to collaboration and innovation.

More info : <https://www.multiphase-master.eu/>

More info : <https://ai4industry2023.sciencesconf.org/>



## Our team:

It is made up of eight dedicated members serving students, incoming and outgoing mobility, education and partnerships.

• **Paul WHEAL** Head of international department  
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• **Marie-Adeline BRUNON** Coordinator of international mobilities and scholarship  
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• **Samantha CHIN** Head of languages department  
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• **Bérengère USAI** International mobilities  
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## SCHOOL FOUNDED IN 1816



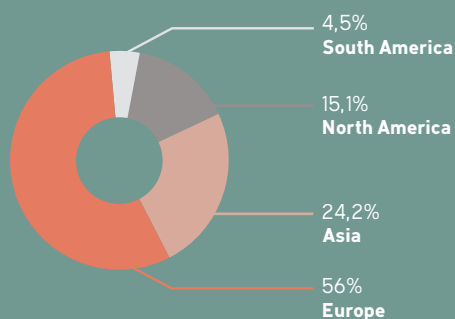
a doctoral school  
covering 7 disciplines



# 100%

 of our

students carry out an international mobility (internship and/or study period)



\* Internship and/or studies combined

## WHERE ARE OUR INCOMING STUDENTS FROM ?



● Our international incoming mobilities



## 125 INTERNATIONAL PARTNERS

**+4** SOUTHEAST ASIA

**+2** CANADA



**Elisabetta Arboscelli Parenti**

Double Degree Master in Management Engineering and ICM

"It is certain that this international programme has opened up many interesting opportunities for my professional integration.

Firstly, I acquired technical, cultural and human skills which are very much appreciated. In addition, thanks to this double degree, I obtained a prestigious diploma that can open many doors for me in both Italy and France. I am currently looking for a job in France, more particularly in Paris."



## FUNDINGS

**7,7 M€**

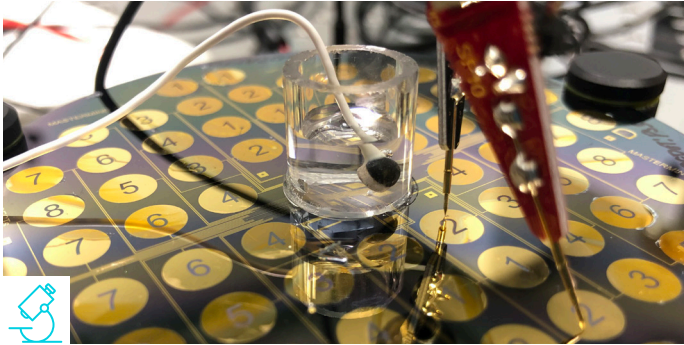
European project for  
Education

14 MASTERS  
WITH 8 IN ENGLISH



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The Provence Microelectronics Research Centre (CMP) awarded coordination of the European **ICONIC** project



The CMP has secured a €3.2 million grant to create smart technology that can prevent brain disorders such as epilepsy.

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## Mines Saint-Étienne awarded €982,000 to finance the European Edu4Chip project

This academic project aims to structure a set of courses intended to train experts in microelectronics.

Obtaining this funding marks the culmination of a call for projects in which Mines Saint-Étienne participated with other prestigious universities such as the Technische Universität München (MUT), Tampere University (Finland), the Royal Institute of Technology in Stockholm (KTH), the Technical University of Denmark (DTU) and Small and Medium Enterprises (SME). Its aim is to design and implement training courses that provide highly qualified engineers in sectors where they currently lack. It was Jean-Max Dutertre, professor and head of the Secure Systems and Architectures Department (SAS), who worked on this call for funding and submitted the application for the École des Mines de Saint-Étienne. The Edu4Chip project was launched in October 2023 and

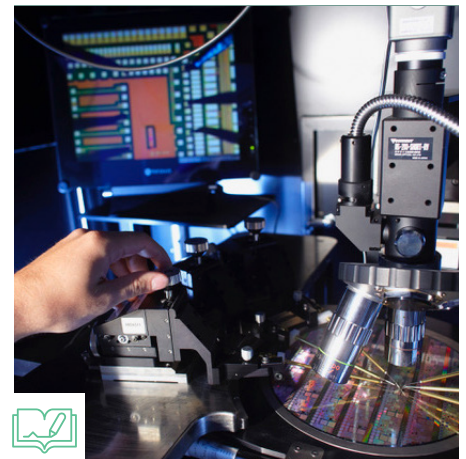
«In this project, we plan to create a totally organic neuromorphic, human-embeddable, and/or wearable on the skin, circuit which integrates an autonomous decision-making capacity.

This altruistic technology will allow humans to no longer have to worry about preserving their health and well-being»

says Sébastien Sanaur, researcher and project leader on our Aix Marseille Provence Campus. The ICONIC project – Open Pathfinder 2023 (Horizon Europe) – aims to develop ultra-flexible artificial intelligence electronic devices that promise to revolutionize real-time monitoring and the treatment of chronic diseases.

In the longer term, these new generation health devices will enable the recognition of signals using body-friendly electronics. They will also be able to prescribe medication based on the patient's profile.

will last four years. It will lead to a unique course dedicated to the design of integrated circuits by 2025.



# PARTNERSHIPS

## Rapid international expansion

Over time Mines St-Etienne has developed expertise in the management of European projects for Erasmus+ education, with the success in 2023 of several projects including two Erasmus Mundus Joint Master Degrees (launches in 2023 and 2024), a Digital Europe project, a Blended Intensive Programme, a Cooperation Partnership project and the European University label (pilot: Institut Mines-Télécom).

The success of these projects is clear recognition of our international dynamism and attractiveness.

Our international strategy gives priority to consortia projects with strategic partners including our fellow members of T.I.M.E. Association (Top International Managers in Engineering). These prestigious universities play a key role in our international development.

The year 2023 clearly reflects our ambitious international strategy that is based on global networks of engineering excellence and further development in Europe by promoting the European values of responsibility, inclusion and diversity.

## PARTNERS

### +2 New double-degree agreements with:



- **HEC Montréal**
- **University of Sherbrooke**

### +4 New agreements with:



- **HKUST (Hong Kong University of Science and Technology)**
- **City U in Hong Kong**
- **University of Malaysia**
- **KMITL (King Mongkut's Institute of Technology Ladkrabang) in Bangkok**

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### Senior management visits

**HUMG (Hanoi University of Mining and Geology) Hanoi**

**ETS (Ecole de Technologie Supérieure) Montreal**

**to MINES Saint-Etienne**



# AGENDA

/// WE MAY HAVE MET IN 2023 AT:

- **APAIE Conference,**  
Bangkok, March 2023
- **EAIE Conference,**  
Rotterdam, September 2023
- **TIME Association General Assembly,**  
October 2023

**AND WE HOPE TO MEET AGAIN IN 2024!**



T.I.M.E. Association 2023 in Wrocław

## Mines Saint-Étienne

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