

Ms. Jane GENG, IMT representative in China

### 1. General overview

IMT, also known as Institut Mines-Télécom, brings together **ten schools of engineering and one school of management** that **support innovation and business development** under the authority of the **French Ministry for the Economy, Industry and Digital Affairs**. IMT's schools are so-called French *Grandes Ecoles*, an elite higher education track, originally created in the 18<sup>th</sup> century to sustain the development of the French territory through industry and commerce. In the later part of the 19<sup>th</sup> and 20<sup>th</sup> century, this elite track saw the creation of new schools to teach business and newer fields of science and technology. IMT schools offer degrees at the graduate and postgraduate levels, taught in **French and/or English** in the following fields:

- Environmental, Energy and Civil Engineering
- Materials and Mechanical Engineering
- Information & Communications Technology
- Computer Science
- Industrial and Systems Engineering
- Management and Economics

### 2. Key figures

- 13,660 students including 8,895 engineering students, 1,010 management students and 1,595 PhD students (2017-18 figures). Over 4,300 are international students
- 48 programs in English/over 80 programs in French (Master of Science in Engineering)
- 500 international partnerships in over 70 countries
- 1650 doctors and full professors
- 2 Carnot Institutes/8 ERC/35 doctoral schools
- More than 9,400 corporate partnerships

### 3. University strengths / key projects

Through an old tradition of **academic excellence and high selectivity**, IMT offers students a unique experience in France:

- **Multicultural campuses** with more than 30% of international students
- Small-school **individualized approach** with full student and international services on each campus
- **State-of-the-art infrastructures** including individual accommodation, computer rooms, professional software licenses, libraries, fully equipped research centers
- **Scholarships opportunities** from IMT, companies and the French government
- **Strong links with the corporate world** (including Fortune Global 500 companies) through paid internships, collaborations in training development, research contracts, technology transfer
- One of the **highest post-graduation employability and salary rates** in France, with 85% placement within two months after graduation
- **Wide, influential and dynamic alumni network** providing paid internships, job offers, careers reorientation, access to information, and corporate partnerships for the schools

IMT global strategic plan for 2018-2022 aims to make Institut Mines-Télécom a **national institute of science and technology** with an extended geographical presence through its schools, as well as international visibility. It aims to capitalize on the diversity of the schools' knowledge and expertise to devise courses, research and useful innovation for businesses and society in a **21st-century economy undergoing digital, environmental, industrial, educational and energy-related transformations**.

**Four strategic objectives** have been defined on the basis of a collective analysis coordinated by the IMT directorate-general, in articulation with the schools' strategies and their engagement in local policies:

- respond to the growth, diversification and evolution of training demands,
- develop scientific leadership to serve the needs of the economy and society,

- act as a spearhead for innovation and support economic development,
- join the elite of major technology institutes and universities of international renown.

#### 4. International strategy

IMT established key international objectives for 2018-2022:

- incoming student mobility: recruit high-level international students from a greater variety of geographic origins and flows. IMT has identified nine target countries for expanding its collective activities.
- outgoing student mobility: increase significantly the number of IMT degree-seeking students abroad (double-degree)
- Franco-German Academy for the Industry of the Future
- IMT Africa with innovating training for students in Sub-Saharan Africa

Coordinated international recruitment programs are organized under the IMT name in order to attract the best students to IMT schools. IMT has recruited five permanent representatives in China, India, Indonesia, Brazil and Columbia.

China represents a huge human potential that provides high level collaborators for a growing presence of French companies (1,600 companies representing 570,000 jobs in China). In addition, France is more and more attractive for Chinese investors, ranking 2nd in Europe with 650 subsidiaries of Chinese companies. Having realized that a long time ago, IMT has been committed for many years in China who is still today one of its main strategic countries in terms of international development.

In particular, IMT enjoys long lasting partnerships with some of the most prestigious Universities in China, acknowledged for their high level in teaching and research for engineering topics (SJTU in Shanghai, NUST in Nanjing, HIT and HEU in Harbin, Xidian University and Chang'An University in Xi'an, etc.). Moreover, IMT takes part in various offshore campuses through the participation of some of its schools, including for China: Shanghai Jiao Tong ParisTech (SPEIT) with SJTU in Shanghai, Franco-Chinese Institute of Nuclear Energy (IFCEN) with Sun Yat-Sen University in Zhuhai, Institute for Clean And Renewable Energies (ICARE) with HUST in Wuhan.

IMT's main objective in China is to recruit students with high academic level through its partnership programs as well as to increase the number of IMT outgoing students for exchange and double degree programs.

#### 5. Research

IMT plays an active role in national research program alliances and is a founding member of the *Alliance Industrie du Futur*, the French State initiative to bolster the role of French industry in globalization. With 2 Carnot Institutes, 55 research centers of excellence in all fields of engineering and science, IT, economics, social sciences and management, and an annual turnover of 106 million euros from corporate research contracts, IMT is not only a world-wide academically recognized institution, but also **a major European research institution** driving 93 research projects through the H2020 European Frame Programs, and the ICST-Asia and ICST-South-America programs. With **38.9 million Euros and 8 individual ERC grants**, IMT (1.5% of the French scientific personnel) ranks first among French Higher Education and Research Institutions in terms of per-capita funding received from the European Commission in the framework of the H2020 program.

Every year, over **55 patents** are filed and **2,026 'rank A' publications** contribute to the advancement of science. It also promotes entrepreneurship and project incubation, with nearly **80 start-ups** leaving the schools' incubators each year, 85% reaching the 3-year mark.

#### 6. Entrepreneurship

IMT and its schools have a strategic mission to **support economic development** nationally and internationally through innovation for businesses. This innovation is disseminated through:

- partnership research projects financed by businesses or in partnership with them
- technology transfer, including in technology platforms operated by the schools
- student internships, missions and projects carried out in collaboration with businesses

The schools have also set up a **network of technology incubators** and coordinate the promotion of creative activities serving innovation.