



IMT Mines Albi-Carmaux
École Mines-Télécom



RAPSODEE 

RESEARCH AND EDUCATION CENTER - UMR CNRS 5302



RAPSODEE AT A GLANCE

RAPSODEE

Research and education center of IMT Mines Albi.

IMT Mines Albi is part of the "Institut Mines-Télécom", the number one group of engineering and management graduate schools in France. IMT Mines Albi is also an associate member of the **Université Fédérale Toulouse Midi-Pyrénées** and of the **Carnot-Mines Institute**.

The RAPSODEE, UMR CNRS 5302 - **Research in Albi on Particulate SOLids, Energy and the Environment** - is a joint research center between IMT Mines Albi and **CNRS**.



+ than 35 industrial partners

Governmental and regional agency partners
Région Occitanie and French National Research Agency (Investments for the Future)
6 GDR: CNRS Network



2 joint research international laboratories with universities in the US and in China



3 joint research laboratories with industry

2 RESEARCH & INNOVATION PLATFORMS

▶ VALTHERA
Thermal Recovery of Processing Residues from Agro-Resources

▶ GALA ®
GALenic Advanced



95 staff members including **45** PhD students



+80 publications/year, including **55** articles in peer-reviewed international journals



1.3 M€ per year of grants

RESEARCH

International scientific recognition

EDUCATION & TEACHING

linked to the research groups



7 tracks for general engineering diploma in **4** fields

- ▶ Energy resources, conversion and efficiency
- ▶ Materials for buildings and sustainable construction
- ▶ Digital transition for energy
- ▶ Bio-health: agri and pharma

STUDENTS



2 Masters of Science provided in english

- ▶ ADPHARMING
ADvanced PHARMaceutical engineeriNG
- ▶ BiWEM
Blomass and Waste for Energy and Materials



1 Advanced Master

- ▶ BE+
Positive Energy Buildings

2 RESEARCH GROUPS



ENERGY & ENVIRONMENT

Biomass, Waste and Solar Energy



POWDERS & PROCESSES

Powder Engineering, Health, Food and Chemicals

PROCESS ENGINEERING FOR SUSTAINABLE GOALS

EQUIPMENT

offering outstanding research, innovation and up-to-date facilities.



laboratory scale facilities



pilot scale facilities including spray drying, mixing, extrusion, crystallisation, torrefaction, pyrolysis, gasification...



+ than 200 characterisation equipment

INTERNATIONAL

RAPSODEE has developed outstanding collaborations worldwide.

EVENTS & PEER REVIEW JOURNAL

WasteEng Conference Series

since 2005, every 2 years
400 abstracts from 50 countries per event

International Symposium on Supercritical Fluids

every 3 years

WTERT conference

Waste-to-Energy Research and Technology Council - every 2 years

SAKE Symposium

joint meetings since 2008
with Tohoku University - Japan

"Waste and Biomass Valorization"
peer reviewed journal
Springer Nature

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www.imt-mines-albi.fr/rapsodee


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CURRENT COLLABORATIONS

7 joint PhD students



4 joint post-doctorates

12 international research collaborations

- ▶ *Universidade Federale do Rio de Janeiro*, Brazil
- ▶ *Campinas University*, Brazil
- ▶ *Sherbrooke University*, Canada
- ▶ *Xi'an University of Science and Technology*, China
- ▶ *Zhejiang University*, China
- ▶ *Universidad Nacional de Colombia*
- ▶ *University College Dublin*, Ireland
- ▶ *Mahatma Gandhi University*, Kerala, India
- ▶ *Universiti Teknologi Petronas*, Malaysia
- ▶ *Columbia University*, USA
- ▶ *Princeton University*, USA
- ▶ *Worcester Polytechnic Institute*, USA

