

2.8 Engineering, Manufacturing and Construction

Title	Partner universities involved	Level	ECTS	Programme website
Acoustics Vibrations Engineering Sounds	University of Coimbra Polytechnic University of Valencia Aix-Marseille University	MA	120	https://apply.ku.lt/courses/course/313-bsc-marine-transport-engineering-specialization-naval-architecture-and-shipbuilding
Aerospace Engineering	Instituto Superior Tecnico Lisboa Politecnico di Torino	MA	120	
Aerospace Engineering	University of Bologna Royal Institute of Technology	MA	120	https://densys.univ-lorraine.fr/
Aerospace Engineering	Ecole Centrale Lyon TU Darmstadt	MA	N/A	https://densys.univ-lorraine.fr/
ALA - Architecture, Landscape and Archeology	University of Coimbra National Technical University of Athens Sapienza - University of Rome University of Naples Federico II	MA	120	https://rekrutacja.pwr.edu.pl/przed-rekrutacja/dlaczego-pwr/program-double-degree/
AMIS - Advanced Materials for Innovation and Sustainability	Institut Polytechnique de Grenoble Technical University of Darmstadt University of Liège University of Bordeaux University of Riga Aalto University	MA	120	https://www.innoenergy.com/for-students/master-school/masters-in-energy-storage/
Architecture & Construction Engineering	Universitat Jaume 1 University of Pavia	MA	120	https://www.innoenergy.com/for-students/master-school/

BIOCEB - Biological and Chemical Engineering for a Sustainable Bioeconomy	Institut national des sciences et industries du vivant et de l'environnement Université de Reims Champagne-Ardenne Université de Liège Aalto University Tallinn University of Technology	MA	120	https://www.eitmanufacturing.eu/what-we-do/education/education-programmes/empower-programme/master-school/
Biomedical Engineering, Chemical Engineering, Electrical Engineering, Energy, Materials Engineering & Nanoscience, Nanotechnology and Nanoengineering	Katholieke Universiteit Leuven Politecnico di Milano	MA	120	https://www.eiturbanmobility.eu/academy/masterschool/
Building Engineering and Architecture	University of Pavia Tongji University a Shanghai	MA	N/A	https://www.grenoble-inp.fr/en/academics/european-master-in-nuclear-energy-emine-innoenergy#page-presentation
Civil Engineering	Universitatea Tehnica de Constructii Bucuresti La Rochelle Université École des Ponts ParisTech Université de Liège	MA	120	https://www.emship.eu/
Civil Engineering	University of Bologna University of Liège Tongji University University of Miami	MA	120	https://www.polito.it/en/education/master-s-degree-programmes/energy-and-nuclear-engineering
Computer Engineering	University of Pavia Tongji University University of Electronic Science and Technology of China	MA	120	https://www.innoenergy.com/for-students/master-school/masters-in-energy-storage/



Computer Engineering	Grenoble Institute of Technology Politecnico di Torino Universitat Politècnica de Catalunya	MA	90	https://formations-en.umontpellier.fr/fr/formations/diplome-d-ingenieur-FI.html
Computer Engineering (Embedded Systems)	Grenoble Institute of Technology Politecnico di Torino	MA	90	https://dwm.pwr.edu.pl/studenci/program-erasmus-plus/program-double-degree
Computer Science	Alexandru Ioan Cuza University of Iasi Moldova State University	BA	180	https://www.tcd.ie/global/assets/pdf/SJTU_brochure2021-22.pdf
Control in Electrical Power Engineering	Wroclaw University of Science and Technology Aachen University Brandenburg University of Technology Ryerson University	MA	120	https://www.univ-poitiers.fr/en/find-a-course/academic-programs/masters-degrees/
Control in Electrical Power Engineering	Wroclaw University of Science and Technology RWTH Aachen University	MA	N/A	https://www.tcd.ie/courses/undergraduate/courses/columbia-dual-degree/
Data Science Engineering	Grenoble Institute of Technology Politecnico di Torino	MA	90	https://www.polito.it/en/education/master-s-degree-programmes/engineering-and-management
DDD BSc programme in Maritime Transport Engineering specialization Naval Architecture and Shipbuilding	Klaipeda University Admiral Makarov National University of Shipbuilding in Mykolaiv	BA	240	https://corsi.unibo.it/2cycle/EnvironmentalEngineering-ERE/opportunities-international-degree-programme



DDD MSc programme in Shipping and Port Engineering specialization Naval Architecture and Shipbuilding	Klaipeda University University of Genoa	MA	120	https://mem.masters.upc.edu/en
Decentralised Smart Energy System	KTH Royal Institute of Technology Politecnico di Torino Universitat Politecnica de Catalunya University of Lorraine	MA	120	https://muei.etseib.masters.upc.edu/en/specialities/mechanics
DENSYS - Decentralised Smart Energy Systems	University of Lorraine Royal Institute of Technology Politecnico di Torino Universitat Politècnica de Catalunya	MA	120	https://www.aalto.fi/en/study-options/european-mining-course-master-of-science-technology
Double Degree	Wroclaw University of Science and Technology University of Limoges	MA	N/A	https://study-geomatics.eu/
EIT InnoEnergy / Energy Storage	N/A	MA	120	https://www.upc.edu/en/masters/erasmus-mundus-hydrogen-systems-and-enabling-technologies-hyset
EIT KIC InnoEnergy / Energy for Smart Cities	KTH Royal Institute of Technology Katholieke Universiteit Leuven UnternehmerTUM Grenoble Institute of Technology Universitat Politecnica de Catalunya	MA	120	https://www.etit.tu-darmstadt.de/studieren/studium_im_ausland_etit/partneruniversitaeten_etit/index.de.jsp



EIT Manufacturing Master School	<p>Aalto University Ecole Centrale de Nantes Mondragon University Politecnico di Milano Scuola Universitaria Professionale della Svizzera Italiana Technische Universitat Wien University College Dublin Grenoble Institute of Technology University of Trento University of Tartu</p>	MA	120	<p>https://muei.itseib.masters.upc.edu/en/specialities/mechanics</p>
EIT Urban Mobility	<p>Aalto University Ghent University KTH Royal Institute of Technology Politecnico di Milano Universitat Politecnica de Catalunya Eindhoven University of Technology Tartu University</p>	MA		<p>https://www.aalto.fi/fi/koulutustarjonta/innovative-sustainable-energy-engineering-nordic-master-master-of-science-technology</p>



EMINE - Nuclear Energy	<p>Universitat Politècnica de Catalunya Grenoble Institut d'ingénierie et de management KTH Royal Institute of Technology Université Paris Saclay Institut Polytechnique de Paris Université Paris Sciences et Lettres Ecole Nationale des Ponts et Chaussées Paris tech</p>	MA	120	https://www.aalto.fi/en/study-options/innovative-sustainable-energy-engineering-nordic-master-master-of-science-technology
EMSHIP - Advanced Design of Ships and Offshore Structures	<p>University of Liège University of Rostock Ecole Centrale de Nantes Polytechnic University of Madrid</p>	MA	120	https://iep.thapar.edu/tcd.html
Energy and Nuclear Engineering	<p>Grenoble Institute of Technology Politecnico di Torino</p>	MA	90	https://www.univ-poitiers.fr/en/find-a-course/academic-programs/masters-degrees/
Energy Storage	<p>Aalto University Instituto Superior Técnico Politecnico di Torino</p>	MA	120	https://www.eitmanufacturing.eu/what-we-do/education/education-programmes/empower-programme/master-school/



Engineering degree	<p>Université de Montpellier</p> <p>Politecnico di Torino</p> <p>Université de Sherbrooke</p> <p>Universidade Federal do Rio Grande do Sul</p> <p>Universitatea Politehnica din Bucuresti</p> <p>Cranfield University</p>	N/A	N/A	https://www.aalto.fi/fi/koulutustarjonta/maritime-engineering-nordic-master-master-of-science-technology
Engineering	<p>Politecnico di Milano</p> <p>Wrocław University of Science and Technology</p>	MA	N/A	https://www.polito.it/en/education/master-s-degree-programmes/materials-engineering-for-industry-40
Engineering	<p>Trinity College Dublin</p> <p>University of Michigan-Shanghai Jiao Tong Joint Institute</p> <p>Institut National des Sciences Appliquées de Lyon</p>	N/A	N/A	https://www.polito.it/en/education/master-s-degree-programmes/mathematical-engineering
Engineering	<p>University of Poitiers</p> <p>University of Chouaib Doukkali</p>	MA	120	https://mecanique-fds.umontpellier.fr/formations-et-debouches/international_program/
Engineering	<p>Trinity College Dublin</p> <p>Columbia University</p>	MA	N/A	https://corsi.unibo.it/magistrale/IngegneriaMeccanica-Bologna/opportunita-corso-internazionale
Engineering and Management - Genie Industrielle	<p>Grenoble Institute of Technology</p> <p>Politecnico di Torino</p>	MA	90/120	http://master.spi.sorbonne-universite.fr/fr/ingenierie-pour-la-sante/m1-ips.html



Environmental Engineering	University of Bologna University of Liège University of Miami University of Applied Sciences and Arts Northwestern Switzerland	MA	120	https://www.master-meta4-0.eu/
ESEIAAT - Engineering and Management	Universitat Politècnica de Catalunya Politecnico di Torino	MA	120	https://www.master-mir.eu/
ETSEIB - Mechanical Engineering	Universitat Politècnica de Catalunya Politecnico di Torino	MA	90/120	https://www.polito.it/en/education/master-s-degree-programmes/nanotechnologies-for-icts
European Mining Course	Aalto University Montanuniversität Leoben RWTH Aachen University	MA	120	https://apply.ku.lt/courses/course/313-bsc-marine-transport-engineering-specialization-naval-architecture-and-shipbuilding
Geomatics for Mineral Resource Management	Instituto Tecnico de Lisboa TU Bergakademie Freiberg Montan Universität Leoben Wroclaw University of Technology	MA	N/A	https://www.kth.se/en/studies/master/polymerr-technology/
HYSET - Hydrogen Systems and Enabling Technologies	Politecnico di Torino Politecnico di Milano Norwegian University of Science and Technology Universitat Politècnica de Catalunya Technical University of Eindhoven	MA	120	https://www.master-photonics4security.eu/

iCE - Electrical Engineering/Information and Communication Technology - Information and Communication Engineering	Grenoble Institute of Technology TU Darmstadt Royal Institute of Technology	MA	N/A	https://www.innoenergy.com/for-students/master-school/master-s-in-renewable-energy/
Industrial Engineering - Master of Science in Mechanical Engineering	Universitat Politècnica de Catalunya Politecnico di Torino	MA	120	https://kic.upc.edu/en/training/eit-innoenergy-masterschool
Innovative Sustainable Energy Engineering	Aalto University Chalmers University of Technology Technical University of Denmark KTH Royal Institute of Technology	MA	120	Double Degree Program (T.I.M.E.) with Wrocław University of Science and Technology (WUST) P... - RWTH AACHEN UNIVERSITY Faculty 6 - English (rwth-aachen.de)
Innovative Sustainable Energy Engineering	Aalto University KTH Royal Institute of Technology DTU Technical University of Denmark Chalmers University of Tecnology	MA	120	https://www.innoenergy.com/for-students/master-school/master-s-in-sustainable-energy-systems/
International Engineering Programme	Trinity College Dublin Thapar Istitute of Technology, India	BA		https://www.innoenergy.com/for-students/master-school/master-s-in-smart-electrical-networks-and-systems/
Life sciences, earth sciences, engineering sciences, chemistry	Universidad Libre Bogota University of Poitiers	MA	120	https://www.innoenergy.com/for-students/master-school/master-s-in-smart-electrical-networks-and-systems/



Manufacturing	Aalto University Grenoble INP Institute of Technology University College Dublin Politecnico di Milano Technische Universität Wien Mondragon University University of Applied Sciences and Arts of Southern Switzerland	MA	120	https://ssi-master.eu/
Maritime Engineering	Aalto University Chalmers University of Technology Technical University of Denmark Norwegian University of Science and Technology	MA	120	https://spacemaster.eu/
Material Engineering	Grenoble Institute of Technology Politecnico di Torino	MA	90	https://www.master-strains.eu/
Mathematical Engineering	Grenoble Institute of Technology Politecnico di Torino	MA	60	https://emjm-sbbe.eu
Mechanical Engineering	Université de Montpellier Chiang-mai University	MA	120	https://apps.uc.pt/courses/PT/course/9442
Mechanical Engineering	University of Duisburg-Essen University of Bologna	MA	120	https://ec2u.eu/for-students/ec2u-master-programmes/sustainable-cities-and-communities/
Mechatronics Systems for Rehabilitation	University of Brescia Sorbonne Université	MA	160	https://www.eiturbanmobility.eu/academy/masterschool/

META 4.0 - Manufacturing 4.0	École Centrale de Lyon Politecnico di Torino University of Ljubljana Norwegian University of Science and Technology in Norway Technical University of Chemnitz École Nationale Supérieure des Mines de Saint-Étienne	MA	120	https://corsi.unibo.it/2cycle/TelecommunicationsEngineering/opportunities-international-degree-programme
MIR – Marine and Maritime Intelligent Robotics	University of Toulon Norwegian University of Science and Technology Universitat Jaume I Institut Superior Tecnico	MA	120	https://corsi.unibo.it/2cycle/TelecommunicationsEngineering/opportunities-international-degree-programme
Nanotechnologies for ICTs	Grenoble Institute of Technology Politecnico di Torino	MA	90	https://apps.uc.pt/courses/EN/course/6401/2022-2023
Naval Architecture and Shipbuilding of the Programme Marine Transport Engineering	Klaipeda University Admiral Makarov National University of Shipbuilding University of Genova	BA	120	https://phelma.grenoble-inp.fr/en/studies/master-wics-at-a-glance-international-master-of-science-in-wireless-integrated-circuits-and-systems-wics
Polymer Technology	Aalto University Chalmers University of Technology Technical University of Denmark KTH Royal Institute of Technology Norwegian University of Science and Technology	MA	120	https://iiw.kuleuven.be/english/food4s
PSRS - Photonics for Security Reliability and Safety	University Jean Monnet University Paris Est Créteil Politecnico di Torino	MA	120	https://emplant-master.eu/

RENE Renewable Energy	ESADE Business School Instituto Superior Técnico Institut Polytechnique de Paris Universitat Politècnica de Catalunya KTH Royal Institute of Technology	MA	N/A	www.fipdes.eu
RENE Renewable Energy	Universitat Politècnica de Catalunya Instituto Superior Técnico KTH Royal Institute of Technology Université Paris-Saclay	MA	120	https://www.medfor.eu/
Renewable Energy Systems	Wroclaw University of Science and Technology RWTH Aachen University	MA	N/A	www.merged.info



<p>SELECT - Environomical Pathways for Sustainable Energy Systems</p>	<p>KTH Royal Institute of Technology Eindhoven University of Technology Katholieke Universiteit Leuven Institut Polytechnique de Paris ESADE Business School Universitat Politecnica de Catalunya Aalto University Instituto Superior Tecnico Lisboa Politecnico di Torino AGH - University of Science and Technology Grenoble Institute of Technology Université Paris Saclay UnternehmerTUM Université Paris Science et Lettres Ecole des Ponts ParisTech</p>	<p>MA</p>	<p>120</p>	<p>em-sufonama.eu</p>
<p>SENSE - Smart electrical Networks & Systems</p>	<p>Universitat Politècnica de Catalunya Grenoble Institut d'ingénierie et de management Katholieke Universiteit Leuven Eindhoven University of Technology KTH Royal Institute of Technology</p>	<p>MA</p>	<p>120</p>	<p>https://www.beinprecisionmedicine.eu/</p>



SENSE - Smart Electrical Networks and Systems	KTH Royal Institute of Technology Eindhoven University of Technology Katholieke Universiteit Leuven Grenoble INP Institute of Technology Universitat Politècnica de Catalunya	MA	120	https://endoconnect.eu/
Smart Systems Integrated Solutions	University of South-Eastern Norway Aalto University Budapest University of Technology and Economics	MA	120	https://www.utu.fi/en/study-at-utu/masters-degree-programme-in-future-health-and-technology
SpaceMaster - Space Science and Technology	Luleå University of Technology Aalto University Cranfield University Czech Technical University in Prague Université Toulouse III - Paul Sabatier	MA	120	https://du-infections-emergentes-one-health.edu.umontpellier.fr/
STRAINS - Advanced Solid Mecanics	Université de Lille Centrale Lille Institut Université Catholique de Louvain Wrocław University of Science and Technology National Technical University of Athens Università della Calabria	MA	120	https://www.uantwerpen.be/en/study/programmes/all-programmes/leading-international-vaccinology-education/

Sustainable Biomass and Bioproducts Engineering	Wrocław University of Science and Technology Universidad de Castilla-La Mancha LUT University	MA	120	https://ec2u.eu/for-students/ec2u-master-programmes/masters-degree-lifeline-lifelong-well-being-and-healthy-ageing/
Sustainable Cities and Communities	University of Coimbra University of Poitiers University of Turku	MA	120	https://www.ucv.es/oferta-academica/grados/grado-en-medicina/seccion/por-nombre-de-profesor
Sustainable Cities and Communities	University of Coimbra University of Pavia University of Iasi University of Salamanca Univresity of Turku Universiti of Poitiers University of Jena	MA	120	https://www.ucv.es/oferta-academica/facultades/facultad-de-medicina-y-ciencias-de-la-salud/grado-en-medicina
Sustainable Urban Mobility Transitions	Aalto University Ghent University Politecnico di Milano Eindhoven University of Technology University of Tartu KTH Royal Institute of Technology Universitat Politecnica de Catalunya	MA	120	https://ssc-phil.univie.ac.at/studien/middle-european-interdisciplinary-masters-programme-in-cognitive-science-meicogsci/



Telecommunications Engineering - Communication Technology	University of Bologna Norwegian University of Science and Technology Institut Supérieur de l'Electronique de Paris Tongji University	MA	120	http://master-nanomed.eu
Telecommunications Engineering - Diplome d'Ingenieur	Institut Supérieur d'Electronique de Paris University of Bologna	MA	120	https://organovir.com/
Tribology of Surfaces and Interfaces	University of Coimbra Lulea University of Technology University of Leeds University of Ljubljana	MA	120	https://corsi.unibo.it/magistralecu/Farmacia-Bologna/opportunita-corso-internazionale
WICS - Wireless Integrated Circuits and Systems	Grenoble Institute of Technology	MA	90	https://www.singaporetech.edu.sg/undergraduate-programmes/physiotherapy-teachout#programme-structure
Science in Sustainable Food Systems Engineering, Technology and Business	Katholieke Universiteit Leuven University College Dublin Anhalt University of Applied Sciences Universidade Catolica Portuguesa, Porto	MA	120	https://www.ucv.es/oferta-academica/facultades/facultad-de-psicologia/grado-en-psicologia

