





What do we offer students?

EIT RawMaterials Academy offers students a unique opportunity to learn in a dynamic environment, focusing on real-life challenges. Awarded by the EIT (European Institute of Innovation and Technology), a body of the European Union, the EIT Label is a certificate of quality that is granted only to excellent educational programmes at the master's and doctoral level.

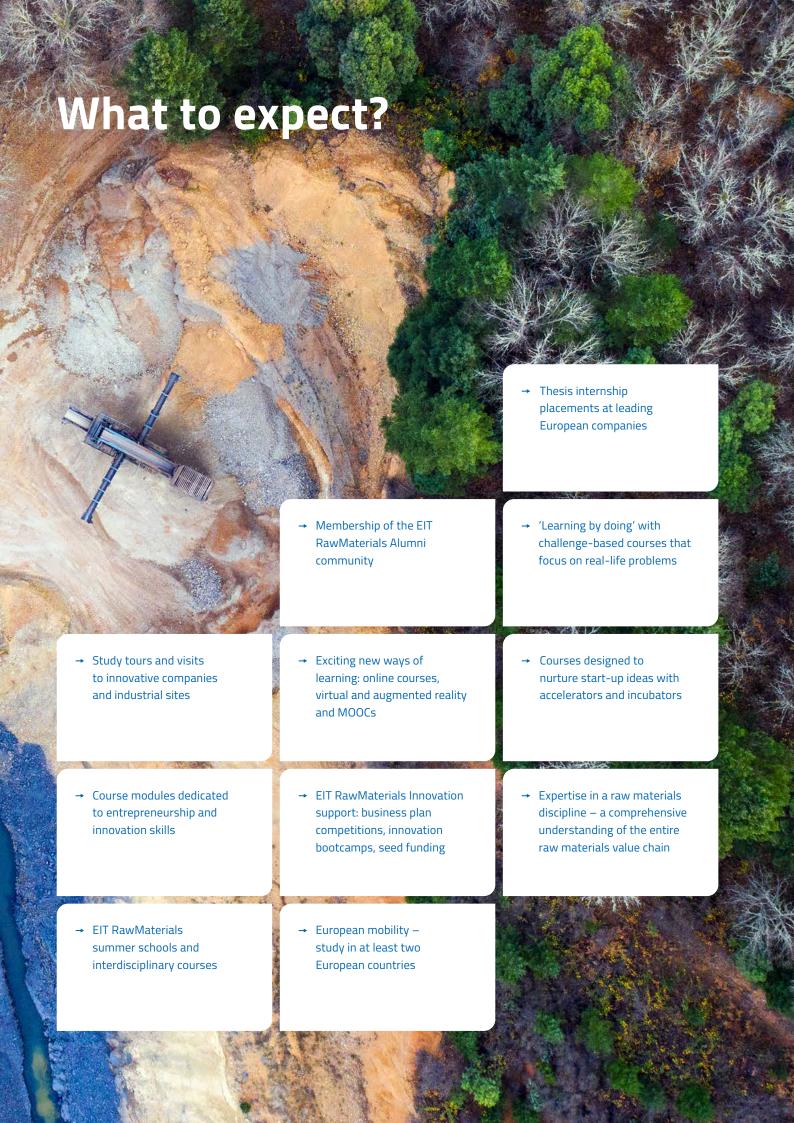
As a student of an EIT-Labelled programme from EIT RawMaterials Academy, you'll be part of the largest European raw materials network with more than 120 core and associate partners and 180 project partners, including higher education professionals, researchers, and industry experts from over 20 European countries. As an EIT Label student, you will be welcomed into this network and will champion and contribute to the EIT RawMaterials goals of finding new, innovative solutions to secure the sustainable supply of raw materials across the value chain: from explo-

ration, mining and extraction, to mineral processing, recycling and the movement towards a circular economy. EIT RawMaterials aims to equip a new generation of innovators in Europe with the necessary entrepreneurial mind-set for designing and delivering materials solutions. You'll also get the chance to collaborate internationally and develop sustainable solutions to pressing economic, environmental and societal challenges. And long after you graduate, you can stay connected via EIT RawMaterials Alumni.



JOIN AN EIT-LABELLED PROGRAMME AND BECOME A
GLOBAL GAME-CHANGER, ARMED WITH THE KNOWLEDGE,
SKILLS AND EXPERIENCE EMPLOYERS SEEK.







The SUMA master's programme aims to train tomorrow's resource engineers to work collaboratively in a global world, gathering together some of the best educational programmes in the field of sustainable materials engineering in Europe. The goal is to ensure young scientists obtain a solid background in chemistry and physics, with competences for designing and tailoring new material systems for specific

functions and with a specific view to the sustainability of processes and technologies in the field of material development. SUMA puts a particularly strong focus on innovation, entrepreneurship and leadership and takes a holistic approach to the materials paradigm by exploring circular (eco) design, materials substitution, life cycle engineering and circular economy design, materials processing and recycling, manufacturing and innovation.

| Double Diploma | Dual Master of Science degree awarded from two of the following universities: - KU Leuven - Montanuniversität Leoben - University of Trento - Grenoble INP - University of Milano-Bicocca |
|-------------------------|--|
| | EIT Label Certificate |
| Credits | 120 ECTS, 24 months |
| Language of Instruction | English |
| Starts in | September |
| Requirements | Generally, all students should have: Bachelor of Science or Bachelor of Engineering (or equivalent), as well as proof of English language proficiency. Candidates must meet the admission criteria of the master's degree programmes of both partner institutions of their chosen track. Please refer to the individual entry university websites for information on admission requirements. |
| Tuition fees | Fees vary based on programme track and country of origin. Total fees for EEA students range from €77 to €5,500. Total fees for non-EEA students range from €600 to €12,000. Visit www.master-suma.eu/study/#paths for details |
| Application Period | Application for the SUMA programme is a multi-step process. Applicants should register on the SUMA website: www.master-suma.eu For information on the registration/application deadlines for the entry universities, please check the following: KU Leuven www.kuleuven.be/english/application/instructions Montanuniversität Leoben https://starter.unileoben.ac.at/en/3274/ University of Trento https://international.unitn.it/incoming/admission University of Milano-Bicocca (UNIMIB) https://en.unimib.it/education/how-enrol |
| Scholarships | For students beginning in September 2021, EIT Label scholarships from EIT RawMaterials of €13,500 per eligible student are available. For information on how EIT Label scholarships will be awarded and who is eligible, please contact the coordinating university directly: master-suma@kuleuven.be |

PARTICIPATING UNIVERSITIES

KU Leuven

Belgium

Montanuniversität Leoben

Austria

University of Trento

Italy

Grenoble INP

France

University of Milano-Bicocca

italy

FOR MORE INFORMATION

Department of Materials Engineering – KU LeuvenKasteelpark Arenberg 44/2450

3000 Leuven, Belgium

SUMA Project Manager:

Katarzyna Janusz T: +32-16377876 master-suma@kuleuven.be

Master in Sustainable Materials

Awarded the EIT Label in 2016

INNOVATION AND ENTREPRENEURSHIP TRAINING

As an EIT-Labelled master's programme, SUMA recognises the importance of providing students with the opportunity to explore the economic relevance of sustainable materials solutions and how they are practically implemented in industrial and societal settings. SUMA students will be provided with innovation and entrepreneurship training addressing the following:

- → Courses dealing with the implementation of an innovation strategy at a company level and the management of the product development process and strategic management, creativity and decision-making for product development
- → Business simulation games
- → Testimonies given by young entrepreneurs on the role of engineering in the start-up of technological spin-off companies
- → Case studies presented by industrial and company experts in the field
- → Small group and individual project work addressing real world problems

ONE-WEEK SUMMER SCHOOL

Every year the SUMA master's programmes organise a summer school where all students from the different tracks come together to learn from leading experts on a particular sustainable materials topic. During the summer school, students will work together in teams on societal and technological challenges, using the knowledge and lecture content from the expert summer school faculty. The 2019 SUMA summer school supported the SUMA master students in developing competencies in the field of entrepreneurship. The courses and activities were focused on methods and tools to guide the process of start-up creation. Theoretical approaches for new business creation were presented and students were invited to develop and pitch ideas related to start-up creation.

ARE YOU A STUDENT WHO IS:

- Interested in earth sciences, mining, materials sciences and engineering?
- Motivated to explore the connection between materials technology and its environmental and socio-economic factors?
- Keen to become entrepreneurial and start your own company?
- Motivated to work closely with industry and research on cutting-edge challenges?

ATLANTIC COPPER CHAIR ACTIVITIES (ACCHAIR)

In 2021, ACCHAIR, supported by Atlantic Copper, the leading Spanish copper producers, in collaboration with the Technical University of Madrid (UPM), will organise 15 conferences taught by international experts in extractive and recycling metallurgy, emphasizing the most recent scientific and technological innovations of these fields. All the ACCHAIR conferences will be live streamed to students from all the universities of the SUMA consortium.

Additionally, ACChair will organise a summer school open to all SUMA students. The course will last one week with three days of classes at the UPM and three days of visits to mining projects and metallurgical plants in the Spanish pyrite belt. The ACCHAIR summer school takes place each year in July.

PROFESSIONAL PROFILES AFTER GRADUATION

The SUMA master's programme aims at training scientists with a solid background in chemistry and physics, with competences for designing and tailoring new material systems for specific functions, and with a specific view to the sustainability of processes and technologies in the field of material development. The main job opportunities are in industries and research centres in Europe, working on the development and production of functional materials for



advanced applications and high technology. Graduates can start a career as highly valued future leaders in positions of responsibility in managing advanced material design, production processes and material qualifying protocols in high-tech firms, material diagnostics and analysis in industries and research centres, and material development projects and scientific research projects in the field of material science and technology innovation.

SUSTAINABLE MATERIAL SOLUTIONS WITH SUMA

The SUMA master's programme aims to train tomorrow's resource engineers in collaborative work in a global world, gathering together some of the best educational programmes in the field of sustainable materials engineering in Europe. The goal is to ensure young scientists obtain a solid background in chemistry and physics, with competences for designing and tailoring new material systems for specific functions, and with a specific view to the sustainability of processes and technologies in the field of material development. SUMA puts a particularly strong focus on innovation, entrepreneurship and leadership and takes a holistic approach to the materials paradigm by exploring circular (eco) design, materials substitution, life cycle engineering and circular economy design, materials processing and recycling, manufacturing and innovation.



For me the SUMA master's programme is one of the most enriching opportunities I've ever taken part in. It combines the tools for broadening my knowledge on the topics I'm passionate about, getting to know lots of people with different backgrounds and attend events and seminars from experts of the sustainability world. It's a life changing experience.

— DAVIDE, ITALY

Programme Structure

The Sustainable Materials (SUMA) master's programmes are two-year programmes embedded in the engineering programmes of the participating universities. There are in total 9 tracks, each of which has been awarded the EIT Label. Each track of the SUMA programme consists of one full year at an entry university, followed by a second year at one of the other participating universities.

Visit master-suma.eu to explore the different SUMA tracks and module options.

Sustainable

Materials Track

TRACK 2 University of Trento (UniTrento) TRACK 3 University of Milano-Bicocca (UNIMIB) TRACK 4 Montanuniversität (MU) Leoben Topics: → Materials and processing → Sustainability and recycling → Circular (eco) design and life cycle engineering

Sustainable

Metallurgy Track



TRACK 1

KU Leuven

Sustainable

Materials Track

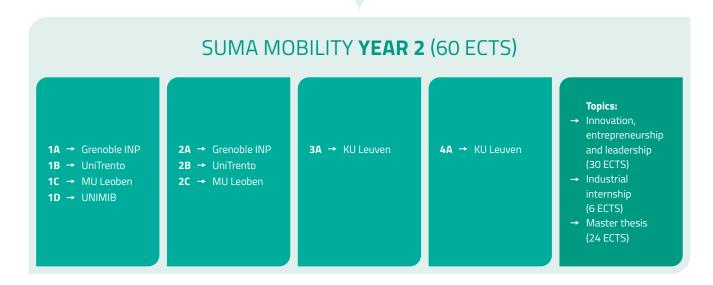
SUMMER SCHOOL ON CIRCULAR ECONOMY

Materials

Development Track



→ Materials substitu-





Exclusive activities and support for EIT-Labelled students

Students on EIT-Labelled master's programmes within the EIT RawMaterials Academy receive a range of additional opportunities to boost their innovation and entrepreneurship skills, grow their network in the raw materials sector and gain the experience they need to thrive.

These exclusive events bring together EIT-Labelled students from across the Master School, and form the basis of your shared learning experiences, making you a full member of the EIT RawMaterials community.

SEMESTER 1

- → Label Induction Days.
 - Meet the EIT RawMaterials Academy and learn how to get involved in our community and the many opportunities on offer. Sign up for EIT RawMaterials Alumni and start growing your network.
- → Vote for your representative on the Label Student Board, or stand for election!

SEMESTER 2

- → Label Start-Up! Days.
 - Get together with 100 Label students to meet and learn from five EIT Raw-Materials supported start-ups. Hear about the experience of setting up a company in the raw materials sector, and network with entrepreneurs.
- → All costs covered by EIT RawMaterials.



Do you have a raw materials business idea?

EIT RawMaterials offers a range of support for individuals and companies with innovative business ideas, including:

Pre-Jumpstarter Workshop

→ This exclusive event for students on the EIT RawMaterials Academy Labelled master's programmes offers support to develop your thinking around a start-up idea and, in particular, to prepare you to apply to the EIT Jumpstarter.

EIT Jumpstarter

 One of Europe's top pre-accelerator programmes, to help you develop your business idea and understand what's needed to create a successful startup.

Booster call

→ Financial and network access support for start-ups and SMEs in the raw materials sector.

EIT RawMaterials Accelerator

→ A three-stage accelerator programme to help start-ups with a developed product to bring their solution to the market.

EIT RawMaterials Alumni

From the moment you join an EIT-Labelled master's programme in the EIT RawMaterials Academy, you are eligible to join EIT RawMaterials Alumni. This organisation provides a great opportunity to network with past and present participants in the many and varied EIT RawMaterials activities, such as business idea competitions, start-ups, professiona development courses and Master's and PhD programmes.

It is run by and for its members, who can benefit from events, career development and educational activities and much more, forming a hub for a diverse range of raw materials students, academics and professionals. Furthermore, the EIT RawMaterials Alumni provides you with a connection to the wider EIT Alumni community and alumni events around Europe.



Labelled by:



A body of the European Union

Supported by:





EIT RawMaterials GmbH

Europa Center Tauentzienstr. 11 10789 Berlin, Germany www.rawmaterialsacademy.eu academy@eitrawmaterials.eu



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