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Introduction





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.

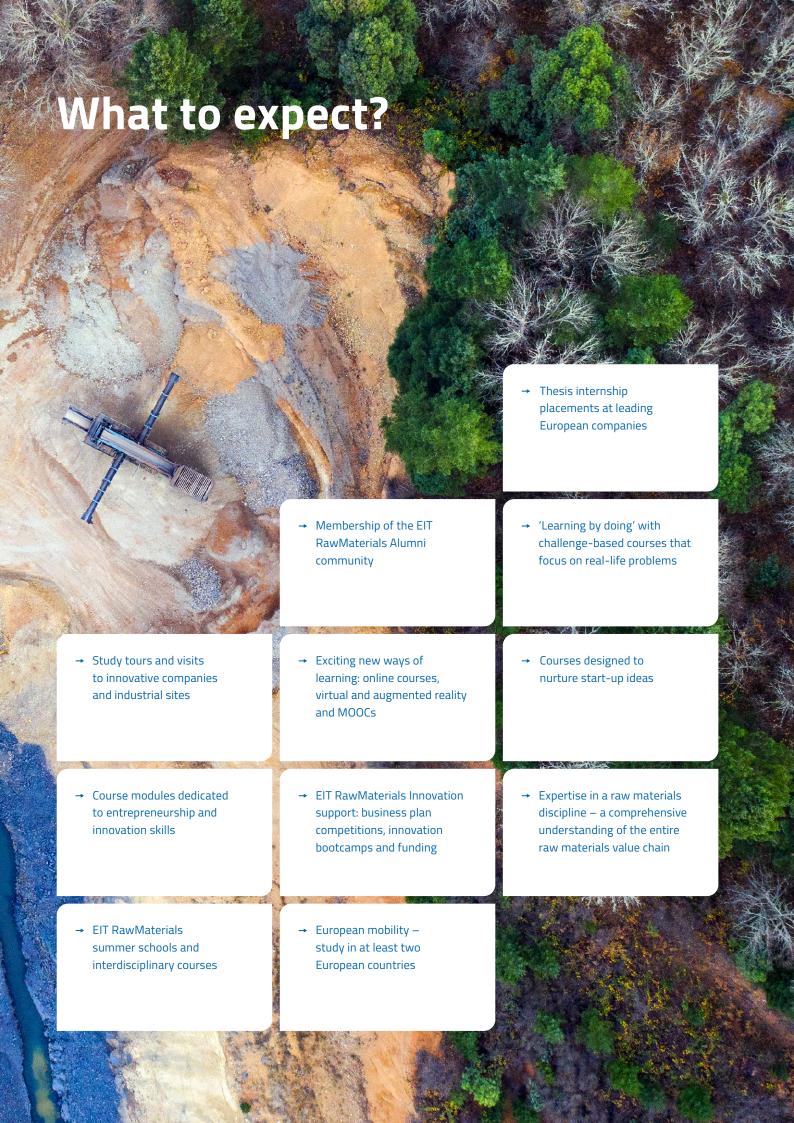
As a student of an EIT-Labelled programme from EIT RawMaterials Academy, you'll be part of the largest European raw materials network with more than 300 organisations as partners, including higher education professionals, researchers, and industry experts from over 20 European countries. As an EIT Label 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 exploration, mining and mineral

processing to recycling, substitution and 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, EQUIPPED WITH THE KNOWLEDGE, SKILLS AND EXPERIENCE EMPLOYERS SEEK.





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 access 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
 - and learn from EIT RawMaterials 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.



The Raw and Circular Economy
Expedition (RACE) is a challenge-based
summer school for 70 students from
around the world, taking place over two
weeks in different European countries.
Find out more at race.eitrawmaterials.eu.

→ Some participation costs covered by EIT RawMaterials for Labelled students selected for participation.

Master's programme. Take part in matchmaking events with EIT RawMaterials industry partners and start-ups, and make new connections with raw materials professionals.

Do you have a raw materials business idea?

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

Lab2Market

→ A three-term entrepreneurship training programme, exclusively for EIT Label students and graduates. Lab2Market will help you come up with a business idea, create a start-up and connect you with investors and customers. Grants are available for selected participants.

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.

EIT RawMaterials Accelerator

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

Booster Call

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

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 connect with the EIT RawMaterials ecosystem and varied EIT RawMaterials activities, such as business idea competitions, start-ups, professional development courses and Master's and PhD programmes.

It is run by and for its members, who can take part in events, and develop their careers through internships and job offers, networking activities and much more, forming a hub for a diverse range of raw materials students, academics and professionals. Furthermore, EIT RawMaterials Alumni provides you with a connection to the wider EIT Alumni community and alumni events around Europe.





Master in Sustainable Materials

Awarded the FIT Label in 2016

Sustainable Material Solutions with SUMA

The SUMA is a two-year (120 ECTS) master's programme that provides academic excellence, innovative-driven education, and a sustainability approach in the field of Materials Science and Engineering. It gathers some of the best educational programmes in the field of sustainable materials science and engineering in Europe. Our goal is to educate excellent professionals with the expertise to design and develop more sustainable materials and/or processes to manufacture them, make sustainable choices in materials-selection challenges, and promote the innovation nee-

ded to create and tailor new material systems for specific functions. SUMA strongly focuses on circular (eco) design, materials substitution, life cycle engineering and circular economy design, materials processing and recycling, manufacturing and innovation. In this way, we hope to deliver the experts who can provide materials solutions that allow the design of sustainable products and services that ecological and geopolitical challenges in Europe and beyond will require, establishing sustainability and innovation not only as an attitude or cross-sectional tasks but also as fundamental engineering skills.



"As an international student, what I loved most about being able to study in different countries in Europe is being able to interact with lots of students, professors, and people from different walks of life. I loved learning and immersing myself in different cultures and I especially enjoyed working with my colleagues during classes and other EIT events.

— DENISE PAULINE BERNARDO, PHILIPPINES (SUMA)

| Double Diploma | Dual Master of Science degree awarded from two of the following universities: | |
|-------------------------|--|--|
| Double Dipiolila | Leuven, Belgium | |
| | – Leoben, Austria | |
| | – Trento, Italy | |
| | – Grenoble, France | |
| | – Milan, Italy | |
| | EIT Label Certificate | |
| Credits | 120 ECTS, 24 months | |
| Language of Instruction | English | |
| Starts in | September | |
| Requirements | SUMA is particularly suited for candidates with a Bachelor's degree in materials science and/or | |
| | engineering or graduates from mechanical engineering, chemical engineering, physics and chemistry | |
| | who already have had some courses in materials engineering during their bachelor's programme. All | |
| | candidates are required to have a Bachelor of Science or Bachelor of Engineering or equivalent, as wel | |
| | 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. | |
| | Visit www.master-suma.eu/study/#paths | |
| | and choose an entry and exit university for details on each specific track. | |
| 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 application deadlines per track visit https://master-suma.eu/study/#apply | |
| Scholarships | A number of partial scholarships from EIT RawMaterials of €15,000 per eligible student are | |
| | usually available. This depends on the programme funding per year. Tuition fees are not included in | |
| | the scholarship. We encourage applicants to search for scholarships through local and international organisations before applying to our master's programme. | |

PARTICIPATING UNIVERSITIES

KU Leuven

Belgium

Montanuniversität Leoben

Austria

University of Trento

Italv

Grenoble INP

France

University of Milano-Bicocca

taly

FOR MORE INFORMATION

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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.

SUMA MOBILITY YEAR 1 (60 ECTS)

TRACK 1

KU Leuven

Sustainable Materials Track

TRACK 2

University of Trento

Sustainable Materials Track

TRACK 3

University of Milano-Bicocca

Materials Development Track

TRACK 4

Montanuniversität (MU) Leoben

Sustainable Metallurgy Track

Topics:

- → Materials and processing
- → Sustainability and recycling
- → Circular (eco) design and life cycle engineering
- → Materials substitution and manufacturing



SUMMER SCHOOL ON CIRCULAR ECONOMY



SUMA MOBILITY **YEAR 2** (60 ECTS)

1A → Grenoble INP

1B → UniTrento

1C → MU Leoben

1D → UNIMIB

2A → Grenoble INP

2B → KU Leuven

2C → MU Leobe

3A → KU Leuven

4A → KU Leuven

Topics:

- → Innovation, entrepreneurship and leadership (30 ECTS)
- → Industrial internship (6 ECTS)
- → Master thesis (24 ECTS)

Master in Sustainable Materials

Awarded the EIT Label in 2016

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.

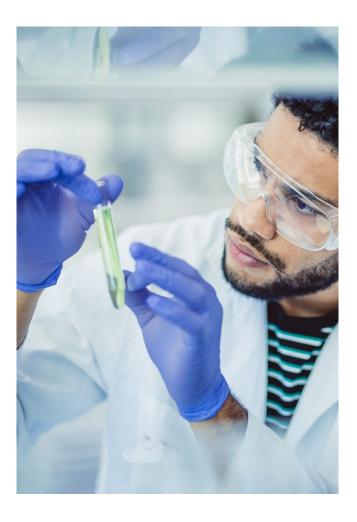
SUSTAINABLE MATERIAL SOLUTIONS WITH SUMA

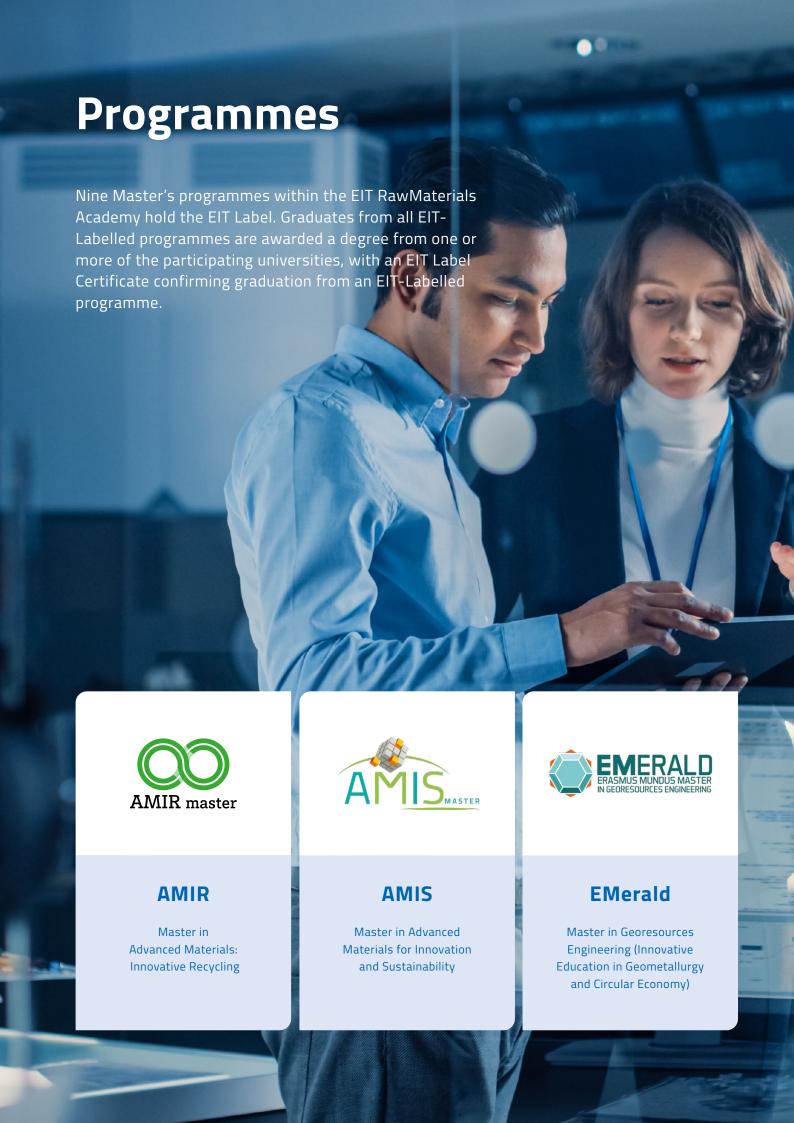
The SUMA master's programme aims to train tomorrow's resource engineers in collaborative work in a global world, gathering together some of the best educational programmes in the field of sustainable materials engineering in Europe. The goal is to ensure young scientists obtain a solid background in 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.

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?

VISIT MASTER-SUMA.EU
TO FIND OUT MORE AND APPLY







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A body of the European Union

Supported by:





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