



RawMaterials
ACADEMY

EIT RawMaterials and the EIT Label

Introduction to the EIT-Labelled Master Programmes



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The EIT Label

What is EIT RawMaterials and how can I contribute to their mission?

EIT RawMaterials is the largest and strongest consortium in the raw materials sector worldwide. Its vision is a European Union where raw materials are a major strength. EIT RawMaterials aims to train the next generation of raw materials experts, offering prospective students the unique opportunity to learn holistically about raw materials and circular economy challenges through the lens of entrepreneurship and innovation. During and after graduating from EIT RawMaterials Labelled programmes, the classroom becomes a laboratory, ideas are converted to solutions and graduates become societal game-changers.

EIT RawMaterials is part of a unique European initiative: EIT, the European Institute of Innovation and Technology. EIT's educational mission is to raise a new generation of innovators in Europe with an entrepreneurial mindset. The EIT Label is a certificate of quality that is awarded only to excellent educational programmes at the Master and Doctoral level.

As a student of an EIT RawMaterials Labelled programme, you will be part of the largest global raw materials partnership – with more than 100 partners from 20 EU countries coming from academia, research institutions and industry. Your collaboration will contribute to the EIT RawMaterials vision of finding new, innovative solutions to secure the sustainable supply of raw materials across the entire raw materials value chain – from mining to extraction, processing to reuse, recycling and circular economy strategies.

Are you interested in:

- **Becoming a global game-changer?**
- **Collaborating internationally to develop creative and sustainable solutions to resource and societal challenges?**
- **Gaining practical experience in your chosen industry sector, rather than only learning theory in a lecture hall?**
- **Getting involved in a dynamic start-up scene?**
- **Enhancing your educational experience and obtaining dual/joint degrees by spending each semester at different top universities?**
- **Becoming part of the EIT Alumni Community?**
- **Then the EIT RawMaterials Labelled programmes are for you!**

Why should I apply to an EIT Labelled programme?

EIT RawMaterials Labelled programmes offer you all of this



Seven Education programmes within the EIT RawMaterials Academy have been awarded the EIT Label

Five Master programmes

- AMIS – Master in Advanced Materials for Innovation and Sustainability
- EMC – European Mining Course
- EMerald – Master in Georesources Engineering
- SINReM – Master in Sustainable and Innovative Natural Resource Management
- SUMA – Master in Sustainable Materials

Two Doctoral programmes

- IDS-FunMat-INNO – International Doctoral School in Functional Materials
- NEAT Materials – New Approaches and Technologies in Materials Production

Graduates from all EIT-labelled programmes are awarded either a dual or joint degree from at least two of the participating universities, with an EIT Label certificate confirming graduation from an EIT-labelled programme.

SINReM

Master in Sustainable and Innovative Natural Resource Management

Awarded the EIT Label in 2017

Diploma	Joint diploma of International Master of Science in Sustainable and Innovative Natural Resource Management from Ghent University, TU Freiberg and Uppsala University - EIT Label Certificate
Credits	120 ECTS, 24 months
Language of Instruction	English
Starts in	September
Requirements	<p>A Bachelor degree (minimum 180 ECTS) in engineering or science including 15 ECTS in mathematics and/or physics and 10 ECTS in chemistry, or an equivalent qualification from a recognized university or engineering college.</p> <p>Proof of proficiency in English – for detailed requirements, please visit the programme website: sinrem.eu/admission/</p>
Fees	<p>European (EEA): 6.000€/year All others: 12.000€/year</p>
Application Period	<p>European (EEA): until 31 May 2018 Non-European: until 28 February 2018</p>
Scholarships	<p>For students beginning in September 2018, EIT scholarships up to EUR 9.000 per student are available with additional financial support for student involvement in conferences, summer schools and other events. For information on how EIT scholarships will be awarded and who is eligible, please contact the coordinating university directly: sinrem@ugent.be</p> <p>In addition to EIT scholarships, European students can apply for a (partial) tuition fee waiver.</p>

Participating Universities

- Ghent University - Belgium
- TU Freiberg - Germany
- Uppsala University - Sweden

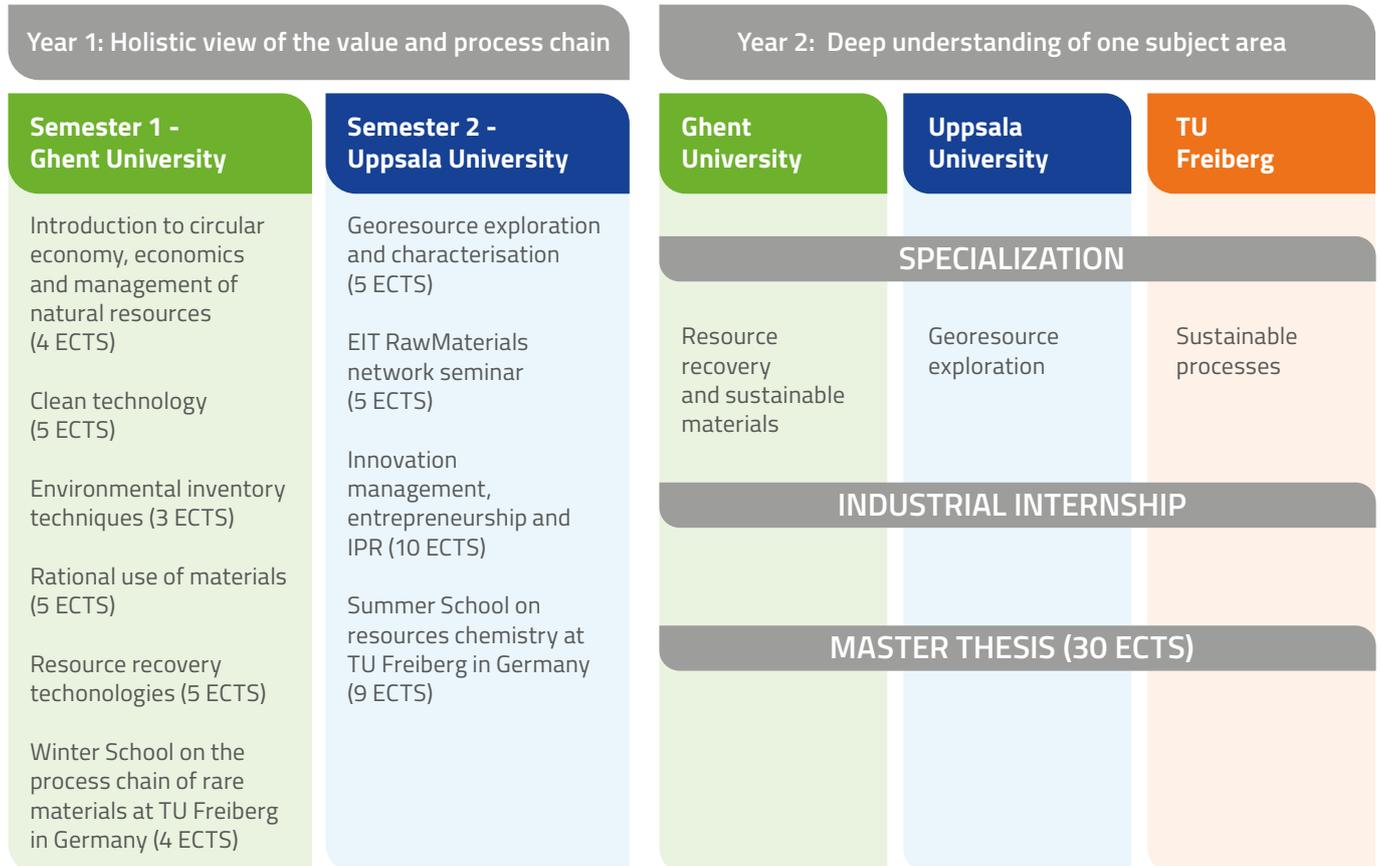
The Challenge

Sustainability is more than just a buzzword. Raw materials are one of the fastest depleting resources on Earth. A steady and sustainable supply of many of these materials are vital for a decarbonizing society, renewable energy infrastructure, electric mobility but also consumer products and electronics. The outdated make-take-use-dispose model is no longer valid in a world of finite resources.

In order to deal with this challenge, three leading European universities cooperated to develop a new Erasmus+ Master programme - the International Master of Science in Sustainable and Innovative Natural Resource Management (SINReM). SINReM was created to educate a new generation of professionals who can engineer technology to reinvent materials science, gain competence, expertise and confidence in developing solutions in the sustainable use of materials.

SINReM gives its students a broad view on the entire value chain and its varying aspects, but also its opportunities and limitations. SINReM students acquire knowledge on the different (technological) options for optimizing flows of natural resources in the different parts of the value chain, ranging from resource exploration to sustainable materials use and use of resources in production processes to recovery/recycling of resources from end-of-life products.

As part of SINReM, students will work together with peers from diverse backgrounds to carefully and sustainably assess how to manage the Earth's resources. Students will instigate a paradigm shift in the industry by developing a holistic view on raw materials processing.



Innovation and Entrepreneurship Training

SINReM graduates are trained to excel in creativity, have an entrepreneurial mind-set, a multidisciplinary view and innovative problem-based technology development skills.

Several integrated and integrating courses throughout the programme stimulate the exchange of knowledge and experience between the students, lecturers and non-academic stakeholders who are active in the value chain, and challenge students to develop and apply multi-disciplinary and creative problem-solving techniques.

The SINReM programme also provides complementary skills training to teach students to assess the environmental and societal impact of interventions in the value chain (e.g. resource assessment) and to be creative and innovative not only in an academic research environment, but also in business environments. These courses include language courses, a course on innovation management, IPR and entrepreneurship and a course Project Management and Business Plan Development that prepares the students for their Master thesis research and for the start of a future start-up or spin-off.

Professional profiles after graduation

Entrepreneur - SiNREM prepares you to start your own business. You will interact with company founders from the raw materials sector, gain the necessary knowledge and skills for innovation management and IPR, learn to develop and analyse business models and plan how to bring the results of research into application. Industrial partners and the research transfer/business development departments of the three partner universities are also there to support you.

Work in Industry - Create a spin-off from an existing company or become a Resource Engineer in research departments or technological departments of small, medium and large companies worldwide.

Are you a student who is

- Interested in exploring how to engineer technologies to improve the use of finite raw materials?

- Keen to learn about how innovation and entrepreneurship competences and skills can position you to contribute both to current industries but also create your own start-up?
- Motivated to work closely with industry and research on developing science-based solutions to pressing challenges?

For more information:

Please find out more information on the SiNREM website: sinrem.eu as well as on the EACEA portal

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