

SETI 2017
EIT Raw Materials Summer School
September 5-11, 2017



Call for Applications

SETI 2017 EIT Raw Materials Summer School

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CLab - Contamination Lab, Piazza Fiera 6, Trento

Organizing institutions

Department of Civil, Environmental and Mechanical Engineering, University of Trento, Italy

Department of Industrial Engineering, University of Trento, Italy

HIT - Hub Innovazione Trentino, Trento, Italy

University of Leuven - KU Leuven, Belgium

National Technical University of Athens, Greece

University of Bordeaux, France

Scientific committee

Matteo Leoni - Department of Civil, Environmental and Mechanical Engineering, University of Trento, Italy

Massimo Pellizzari - Department of Industrial Engineering, University of Trento, Italy

Alessandro Pegoretti - Department of Industrial Engineering, University of Trento, Italy

Milena Bigatto - Hub Innovazione Trentino (HIT), Trento, Italy

Bart Blanpain - University of Leuven - KU Leuven, Belgium

Karel van Acker - University of Leuven - KU Leuven, Belgium

Antonis Politis - National Technical University of Athens, Greece

Matthew Suchomel - University of Bordeaux, France

Alessandro Rossi - University of Trento, Italy

Local organization committee

Matteo Leoni - Department of Civil, Environmental and Mechanical Engineering, University of Trento, Italy

Massimo Pellizzari - Department of Industrial Engineering, University of Trento, Italy

Milena Bigatto - Hub Innovazione Trentino (HIT), Trento, Italy

Vanessa Maria Caleca - University of Trento, Italy

Supported by

EIT Raw Materials - European Institute of Technology, Project 16-0349 SETI - hands-in SummEr school on critical raw maTerials: Innovation and entrepreneurship



Theme of The Summer School

This summer school is an EIT Raw Materials initiative hosted at the Department of Industrial Engineering of the University of Trento. SETI 2017 aims at bringing students together, for a period of one week, to work in team on exploring challenges and opportunities in an increasingly relevant thematic area such as the use of innovative raw materials to replace critical ones, aiming to more efficient energy generation, energy saving and sustainability.

The summer school is part of the innovation and entrepreneurship (I&E) education component of the EIT Raw Material. The principal objectives of SETI 2017 can be summarized as follows:

- demonstrate the importance of replacing existing critical raw materials in the wide fields of energy (generation, savings) and sustainability;
- identify the market needs and business opportunities in the area;
- identify the technology and its level of readiness, teach the students how to transform the gained knowledge into concrete business proposals and coach them how to present the pitches to companies or investors.

Format of the Summer School

SETI 2017 contains focus-lectures of academics and practitioners, project work, usability tests, customer validation work, field visits and socializing events. Focus is put on: business project work, team building, (personal) networking, cultural exchange, knowledge on interaction between ethics and society and creating global awareness of societal and business trends.

During the week, students are confronted with involved stakeholders to consider the sustainability and relevance of their ideas. The course emphasizes multidisciplinary and leverages on diversity as key to innovation. The accent will be on key issues related to innovative materials and technologies. The applied approach is based on the following pillars:

- A balanced combination of Theory and Practice;
- Combination of lectures with practical tutorials, mentoring, study visits, and teamwork
- Social events to identify project ideas.

Throughout the summer school, students will work in teams of 5-6 participants to craft and develop into projects the ideas the solutions they have identified to address the technical problems presented to them.

Each team will have to solve a challenge prepared and coached by industry experts.

The whole initiative is valued 2 ECTS.



Intended Learning Outcomes

After completing the SETI summer school course students will have the ability to:

- Perform a concept creation and business proposal formulation both in general and in the thematic area of one of the use cases.
- Identify/assess the impact of material replacement, technologies and innovations in the use case thematic areas, for its markets and stakeholders (competitors, alliances, networks) and the business opportunities they create.
- Understand user-centricity, business modelling, business life cycles, global market trends, industry value chains, market segments, IPR issues, financial and risk-related issues, and recognizing their relative importance for product/service and business development.
- Transform new ideas and business innovations into viable business solutions.
- Apply personal presentation and communications skills.
- Apply decision-making and leadership competencies.
- Reflect upon ethical, societal, scientific and sustainability considerations when developing new products/technologies and business models.

How to apply

The Summer school is open to **30 master courses students** selected on a merit basis, and will be activated if the **minimum number of 15 participants** is reached. Potential candidates are requested to fill out the application form and to provide any relevant documentation. The documents to be included in the application (email to seti2017@unitn.it) are:

- Academic career
- CV (maximum of two A4 pages)
- A letter with a statement of why the participant wishes to be part of the Summer School and what the participant wishes to get out of the sessions
- Qualification certificates relevant to the topic and to the EIT Raw Materials initiative
- Copy of your Identity card or copy of the first page (identification page) of your Passport

Any other documents such as letter(s) of support from supervisor/peers or English language proficiency certification will be considered by the Committee as preferential titles. **The call will close on Sunday, July 30, 2017 at 01:00 pm.**

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Selection process

The candidates applying for the school will be selected based on the documentation they will provide.

Students from KIC Raw Materials partners, European students and/or students from other countries associated with the H2020 program will be considered preferential candidates.

Costs

Due to the generous contribution of the EIT Raw Materials, the participation to the event is **free of charge** for the selected students. Costs for travel expenses and hotel accommodation will be managed and paid by the Summer School, according to the modalities that will be communicated to the selected students.

Deadlines

June 27, 2017: call for applications opens

July 30, 2017: call for application closes

August 2, 2017: confirmation of places for selected participants

August 7, 2017: confirmation of participation by selected students

Contact

SETI 2017 Summer School Secretariat

Vanessa Maria Caleca

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