Module 1
Discovering Regenerative Materials
January: 1 week

Module 2
Earth construction
February - March: 1 week

Module 3
Bio-based construction
March - April: 1 week

Module 4
Re-valuing the building stock
May: 1 week

Module 5
Project exercise
June: 1 week

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Vimeo:
https://vimeo.com/ethzsc

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Apply now!

CAS ETH IN REGENERATIVE MATERIALS ESSENTIALS

earth - bio-based - reused

Think Regenerative!

It is time to go beyond sustainability. Alternative solutions out of local resources such as earth, bio-based and reused materials are emerging all over the world and are triggering regenerative outputs, thanks to their capacity to contribute to the restoration and improvement of the surrounding natural and social environment. However, they are not widespread in the construction sector due to lack of information on the side of decision makers and lack of competence on the side of practitioners.

The Certificate of Advanced Study in "Regenerative Materials - Essentials", an international ETH training programme launched by the Chair of Sustainable Construction of the ETH Zurich, aims to tackle this problem. It offers knowledge and skills to question our conventional construction techniques and to promote regenerative materials from resource extraction to construction site, operation and end of life of the building materials. It promotes a territorial approach from the preliminary phase of the construction process.

Objectives

This continuing education program aims to give practitioners tools and methods to use earth, bio-based and reused materials with efficiency and creativity in order to contribute to the necessary ecological and social transition in the construction sector.

We aspire to:

- Train specialists to conduct complex projects using earth, bio-based and reused materials with realistic and affordable solutions,
- Highlight exemplary architectural projects developing circular economy and the use of "low carbon" materials,
- Offer a practical experience on real projects (new construction, thermal renovation, historic restoration),
- Create a network of professionals working on regenerative construction.

Duration

Starting in January every year.
12 credits, 5 weeks distributed over 1 semester

Teaching methods

The courses are held in English and combine complementary teaching methods (lectures, visits, hands-on and group exercises) based on active learning to ensure an efficient and durable impact on the professional development of the participants.

Target audience

16 participants from Switzerland and abroad. Project managers, members of city technical services, building contractors, NGOs, architects, engineers.

Application

Applicants are asked to apply online and also include a motivation letter, a CV and two reference letters.

Tuition fees

CHF 7,000. Living expenses are not included.
The Ricola Foundation supported the creation of the CAS and is covering the admission fees of three participants with financial difficulties.

For more information, visit the website:

https://sc.ibi.ethz.ch/en/education/continuing-education/cas-regenmat-essentials.html