



BUILD 2050

CALL for BUILD2050 pilot training

Are you interested in contributing to improving the construction, renovation and operation of healthy and sustainable buildings at the European level through the development of integrated and transnational training?

Do you want to collaborate with people from other European countries in an interdisciplinary context?

If you currently live or work in one of the BUILD2050 partner countries (Italy, Germany, Greece, Poland, Portugal, Sweden), you can join the BUILD2050 pilot training!

Call opening: 17 January 2023

Application deadline: 07 February 2023

Communication of the results of the selection procedure: 21 February 2023

Pilot training courses: March 2023 – April 2024

What is the BUILD2050 Erasmus+ Project?

The main objective of BUILD2050 is to improve the construction, renovation and operation of healthy and sustainable buildings at the European level through the development of integrated and transnational training. The specific objectives are: (1) Create transversal skills in the building sector knowledge for emerging challenges through an integrated training composed of 8 courses aimed at students and professionals; (2) Foster the sharing of innovative knowledge and challenges through the creation of a network of European partners in the building sector (entrepreneurs, researchers, municipalities, companies); (3) Promote the response to the challenges in building sector through the creation of a platform with the compilation of the information generated in training by the trainers, trainees and associated partners; (4) Promote new forms of education through the sharing of experience/methodology of creating integrated and transnational training through a European Guide on Advanced Training for Build2050.

Project duration

02.2022 – 02.2025

Coordinator

IPS – Instituto Politécnico de Setúbal / Polytechnic Institute of Setúbal (<https://www.ips.pt>)

Partnership

UNIBO - Alma Mater Studiorum - Università di Bologna

SGGW - Szkoła Główna Gospodarstwa Wiejskiego / Warsaw University of Life Sciences

NKUA - Ethniko Kai Kapodistriako Panepistimio Athinon / National and Kapodistrian University of Athens

POLIMI – Politecnico di Milano

RUB - RUHR-Ruhr-Universität Bochum / Ruhr University Bochum

LTU - Lulea Tekniska Universitet / Luleå University of Technology

What is BUILD2050 pilot training?

The pilot training is part of the project BUILD2050 submitted under the Erasmus+ Programme KA220 – Partnerships for Cooperation for higher education. The challenge for the European Union in 2050 is to decarbonize the economy, where buildings have an important role. These will be the 2050 constructions: almost zero carbon, healthy and promote well-being, and returning to the natural environment contributes to what they take from it.

It is fundamental to develop technologies in an integrated, holistic approach, properly adapted to climatic, cultural, and natural resource conditions and to achieve this goal through circular economy methodologies. This is an enormous challenge for all the actors involved, technicians, scientists, policymakers and the population of all member states.

It is necessary to:

- create new courses based on innovative training methods with interdisciplinary content with a European scope that allow a continuous adaptation of the contents to current and emerging developments (in technology and society),
- train professionals in the required areas for decarbonization in construction,
- foster healthy constructions and enhance regeneration/restitution.

The pilot training consists of eight courses that intend to respond to current and emerging challenges related to the building sector in relation to the decarbonization goal by 2050. Each course is led by one partner of the consortium with the contribution of the others.

Which are BUILD2050 courses?

The following courses will be held from mid-March 2023 to mid-April 2024:

Course 1 - Innovative and transnational teaching methodologies applied to BUILD2050

Leader: Susana Lucas, IPS – Instituto Politécnico de Setúbal / Polytechnic Institute of Setúbal.

Contributors: NKUA, LTU, POLIMI, RUB, SGGW and UNIBO.

Course 2 - Zero Energy and Positive Energy Buildings towards the full decarbonization

Leader: Maria Koukou, NKUA - Ethniko Kai Kapodistriako Panepistimio Athinon / National and Kapodistrian University of Athens.

Contributors: IPS, RUB, SGGW and UNIBO.

Course 3 - Circular water management in Buildings

Leader: Nelson Carriço, IPS – Instituto Politécnico de Setúbal / Polytechnic Institute of Setúbal.

Contributors: LTU and UNIBO.

Course 4 - (Innovative Construction) Materials

Leader: Elisa Franzoni, UNIBO - Alma Mater Studiorum Università di Bologna / University of Bologna.

Contributors: IPS, NKUA and POLIMI.

Course 5 - Digitization of Buildings

Leader: Mohammad Abdollah Fadel Abdollah, POLIMI – Politecnico di Milano / Polytechnic Institute of Milan.

Contributors: IPS, LTU, SGGW and UNIBO.

Course 6 - Sustainable, Healthy and Regenerative Construction

Leader: Cecilia Mazzoli, UNIBO - Alma Mater Studiorum Università di Bologna / University of Bologna.

Contributors: IPS, LTU and SGGW.

Course 7 - Circular Economy and LCA methodology applied to construction

Leader: Joanna Aleksiejuk-Gawron, SGGW - Szkoła Główna Gospodarstwa Wiejskiego w Warszawie/ Warsaw University of Life Sciences.

Contributors: IPS, POLIMI and UNIBO.

Course 8 - Innovative Business Models based on Circular Economy in Construction

Leader: Antonis Livieratos, NKUA - Ethniko Kai Kapodistriako Panepistimio Athinon / National and Kapodistrian University of Athens.

Contributors: IPS and POLIMI.

You can download a more detailed program of the courses [here](#).

This training programme is what you are looking for to achieve a major training experience and improve your professional and organizational skills!

Who can join the BUILD2050 pilot training?

If you are a graduate in the field of Architecture, Engineering, Environmental engineering, Construction engineering, Civil engineering, Mechanical Engineering, Energy Engineering, Electrical Engineering and Physics **or** you work in the sectors mentioned above;

If you currently live or work in Italy/Germany/Greece/Poland/Portugal/Sweden;

If you have a good knowledge of the English language....

This training programme is what you are looking for to improve your skills!

You have basic knowledge of the language of the country in which you live or work

It is advised that you are familiar with Microsoft Office suite, Sharing platforms, Graphic tools, and Computer-aided design software (i.e., PowerPoint, Word, Excel, OneDrive and similar online channels and platforms, Canvas, Miro, Adobe Suite, Autocad, etc.);

You are enthusiastic about interdisciplinary work;

You have an international background and organizational spirit.

Practical Information

- 70 trainees will be selected for the pilot training for each course.
- There will be 10 participants from each country/academic institution of the consortium partners: i.e., 20 from Italy (UNIBO and POLIMI), 10 from Portugal (IPS), 10 from Germany (RUB), 10 from Greece (NKUA), 10 from Poland (SGGW) and 10 from Sweden (LTU).
- Each course lasts 25 hours and is distributed over 5 weeks for 5 hours per week.
- The courses will be held from mid-March 2023 to mid-April 2024.
- The participants must attend the courses in person in their country's academic institution (e.g., Italian trainees at the University of Bologna or Politecnico di Milano, Portuguese trainees at the Polytechnic Institute of Setúbal, etc.).
- Some courses could have hybrid participation (for further information, please see the courses' fact-sheets at the end of this document).
- There is a 80% of obligatory frequency to the training programme.
- The participants are encouraged to ask for their credits: ECTS and CFP (Italy).
- A participation certificate will be provided to each trainee at the end of each course if you respect the mandatory 80% frequency.
- The applicants can choose more than one training course and are asked to specify their interests in the application form.
- The participants will be part of a group and contribute with a final pitch to the dialogue of the thematics of construction, healthy buildings and innovative engineering.

How to apply

1. Fill this [online form](#), responding to some brief questions.
2. Upload your CV (in English), preferably in European format, including the main study and work experiences, relevant participation in international exchange programmes, etc., to the same [online form](#).
3. Upload your presentation letter (max 300 words - in English) with a short biography and your main interests and experiences (also abroad) connected to the fields of the call to the same [online form](#).

For more info, please take a look at BUILD2050 website:

<https://build2050.weebly.com/>

and/or contact the project team at the following mail address:

build2050@ips.pt; projectbuild2050@gmail.com