

Curricula

There are no curricula pertaining to the doctoral course, due to its characteristics and closely related to a project of excellence such as the aforementioned ERC Synergy SCOPE, the doctorate is aimed at a coherent and unitary approach, with various common activities for students, the stimulation of a team working and exchange of experiences between PhD students, the extended collaboration between all the members of the PhD Board and students.

The themes of the Doctorate are inherent in the development of catalytic processes based on the use of renewable energy, a central and very relevant topic for the energy transition and climate change mitigation, and therefore at the center of large European initiatives, such as the Green Deal. The Doctorate aims to train students capable of tackling these complex issues, through the interdisciplinary skills present in the participants in the Doctoral Board, exploiting the existing synergies and mobility possibilities offered by the existence of this common ERC project, as well as various others EU projects.

The PhD topic is centered on the development of catalytic processes for energy (chemical storage of energy) and chemical production (use of renewable energy in chemical processes to replace the use of fossil fuels) through the conversion of molecules such as N_2 , CO_2 and H_2O , but also includes direct conversion aspects of natural gas as a clean transition technology.