

PhD Program in Earth System and Global Changes

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DESCRIPTION

General information

The new PhD program in Earth System and Global Changes aims to train specialists with interdisciplinary skills, able to deal with several significant and compelling problems of our rapidly changing world, mainly related to: Earth history and dynamics; exploitation of renewable and non-renewable energy resources and geomaterials, also in the perspective of a circular economy; mitigation of geological risks (seismic, volcanic, and hydro-geomorphological).

The PhD program provides international training opportunities on issues relating to climate change, strategies for mitigating natural and human-induced risks, demand for natural resources, and environmental sustainability.

Educational Activities

The activities and educational offer of the PhD program are based primarily on the experience and qualification of the members of the Academic Board, whose research has constantly ensured the attraction of both national (e.g., PRIN, PNRA) and international (e.g., ITN, ERC) competitive funds. The program also benefits from numerous collaborations with qualified international academic and research institutions, as well as with public (e.g., INGV, CNR, ENEA, ARPA) and private (e.g., ENI, ENEL, COLACEM) subjects.

Postdoctoral occupational contexts

The PhD program will train experts with high technical-scientific profile, able to fit into various public and private occupational contexts. The obtained updated and innovative skills will facilitate access to numerous work fields, such as (1) universities and other research institutions; (2) government agencies that require researchers who can support management and policy decisions to address major environmental problems that modern society is facing today, also promoting increased interactions between stakeholders and local communities (Social License); (3) public and private companies devoted to land management and geological risk mitigation, procurement, modelling, and management of geo-resources, sustainable production of minerals and energy resources, and the study and promotion of landscape and cultural heritage.