



Sant'Anna

Scuola Universitaria Superiore Pisa

Call for expressions of interest: initiative on climate

The Sant'Anna School of Advanced seeks expressions of interest from researchers working on the mathematical, physical and economic research challenges linked to climate change in view of the possible opening of one position at Assistant Professor Level (tenure track).

In 2018, the Sant'Anna School for Advanced Studies started a new range of research and educational activities on climate change and its impact on human activities, and humankind. These new activities, designed and planned in collaboration with the Scuola Normale Superiore of Pisa and the University School of Advanced Studies IUSS Pavia, wants to be our response to the challenges posed by climate change. The key aim of these activities is to develop new, interdisciplinary approaches that can help to understand how the climate is changing, and to identify effective policy actions in order to mitigate its impact and to foster the transition towards sustainable economic growth.

Climate change is a complex problem that needs to be tackled urgently. It affects the economy and (almost) all human activities, creates tensions between peoples, countries and generations. It has started altering the life of millions of people. Despite this, identifying the most effective responses and course of actions remains a huge research and policy challenge still largely unfulfilled. Modelling the Earth-system and the impact of climate change can provide extremely valuable indications that can help defining the best mitigation and adaptation strategies.

Scuola Sant'Anna wants to bring its contribution, in the form of a coherent research program and of inter-disciplinary educational experiences that will prepare the future generation of leaders and decision-makers. Our mission is to identify sustainable actions to manage the key challenges linked to climate change, and our two objectives are:

- *In research and innovation:* develop and apply new interdisciplinary tools, dynamic non-linear and computational models, and frameworks in risk management, that can help us to measure the future impact of climate change and to identify the most effective sustainable actions to mitigate its effects;
- *In education and training:* prepare inter-disciplinary learning modules that prepare decision makers to manage complex climate-economic systems, to deal with inter-disciplinary issues, and to take decisions with uncertain, scarce, probabilistic information.

Within this context, we invite expressions of interest from highly qualified researchers working on **the mathematical, physical and economic research challenges linked to climate change in view of the possible opening of one tenure track position at Assistant Professor Level ('ricercatore di tipo B' in the Italian system).**

The ideal candidates should have either a solid background in mathematics applied to probabilistic theory and modelling of climate change, and/or a solid background in the physics of the Earth system (e.g. in meteorology and/or climatology), and/or a solid background in the computational modelling of the complex interactions between climate change and economic systems (e.g. agent-based models).



Prospective candidates should have an excellent record of research and teaching, with a clear promise of academic leadership, an ability to work across traditional disciplinary boundaries and international teams. They will join the internationally recognized faculty of Sant'Anna School, and will help Scuola Sant'Anna to construct an inter-disciplinary centre of excellence focussed on climate change and its impacts.

In 2019, according to the QS University rankings, Sant'Anna School ranked 2nd in Italy, and 10th worldwide in terms of research impact, measured by the number of citations per faculty member; furthermore, according to the Times Higher Education World University Rankings, the School ranked 1st in Italy, 153rd worldwide among all universities, and 9th among the small-size universities.

Pisa offers an outstanding research environment, with two schools for advanced studies (Scuola Sant'Anna and Scuola Normale), a large public university and many other public and private scientific hubs. Pisa has also a very rich cultural scene and offers an excellent quality of life, in the heart of the historic heritage and natural beauty of Tuscany. It has an international airport, and high-speed rail connections to Roma, Milano and other Italian cities. It is located about 1-hour drive from many historical Italian cities, including Firenze, Lucca, Siena, San Gimignano, Volterra.

Interested individuals should send their expressions of interest to Barbara.torelli@santannapisa.it, including a cover letter motivating their interest in the call (3 pages max), and a CV containing a complete list of publications, research and teaching activities and past and ongoing research projects.

All correspondence and expressions of interest will be kept strictly confidential, and **inquiries received before July 31, 2019 will be given the highest priority**. Knowledge of the Italian language is not required, but the ability to teach in English is mandatory. The School guarantees equal gender opportunities in recruitment and career, and welcomes applications from women.

Disclaimer: this is not yet a job vacancy advertisement. Based on the expressions of interest, the Sant'Anna School for Advanced Studies will determine whether or not to offer positions, their number and the type of selection procedure.

Pisa, 25 June 2019