PhD programme: AGRICULTURE, FOOD AND ENVIRONMENT

President: Prof. Andrea Cavallini

Department: Dipartimento di Scienze agrarie, alimentali e agro-ambientali – via del Borghetto, 80 56124 Pisa

Admission requirements: All Master’s degrees

Outcome of the selection procedure: Ranking of each research project: "Transition to mixed cropping systems: agri-environmental issues of introduction of agro-forestry in Mediterranean arable cropping systems"

PhD Positions Available

Positions available 1 of which 1 with grant

Supernumerary positions Pursuant to Article 6 of the competition announcement, candidates who are eligible for the competition to be admitted in supernumerary must forward, to the email address concorsodottorato@unipi.it, Annex C after having held the interview but no later than three days thereafter on the date of the latter. Can also submit admission requests in supernumerary, those eligible who, in possession of the requisites required, contribute to the financial benefits under the bilateral "Partnership for Knowledge" program between the Italian Agency for Cooperation development (AICS) limited to Platform 1 "Rural Development and Land Management".

Details: 1 grant financed by Department of Scienze agrarie, alimentali e agro-ambientali of University of Pisa on subject “Transition to mixed cropping systems: agri-environmental issues of introduction of agro-forestry in Mediterranean arable cropping systems”

Selection criteria: The curriculum, signed and accompanied by a copy of a valid identification document, must be uploaded only during the application process. The curriculum must provide information about the candidate’s academic education as well as his/her professional and research experience. The candidate must attach any document useful for the assessment of his/her curriculum. In particular, the candidate must transmit:
<table>
<thead>
<tr>
<th>Guidelines for the presentation of the PhD Research project</th>
<th>Required: <strong>NO</strong></th>
</tr>
</thead>
</table>
| **INFO:** | **Overview and objectives of the PhD course:**
Agriculture in the next decades will have to reduce consistently its environmental impact, improve food quality (first of all its nutritional quality), guarantee a decent income to agricultural producers, contribute to keep rural areas alive, and provide ecosystem services to society. A wide range of emerging new technologies - based on life science, information technologies, renewable energies - are being proposed to contribute to these goals.
The course focuses on "Food Sustainability", and can be ascribed to the EC "Food 2030" strategy. It is an interdisciplinary program (LS9, LS2, SH1, SH3) combining agricultural sciences with a selected range of biological disciplines to train researchers (also through Agreements with external bodies such as FAO, CNR, companies) in the agricultural, agri-food and agri-environmental sciences, with an up-to-date, excellent disciplinary ground on the biological and social basis of food sustainability, on the sustainability of production systems and on food quality and safety, with in-depth knowledge of systemic implications of each specific sector of activity.

The main research topics are: multifunctional agriculture and food security; plant, animal and microbial biotechnology; ecology, physiology, genomics, proteomics and metabolomics; sustainable food technologies; plant and animal production systems, even in urban environments; technologies for the protection of plants and soil and the environmental remediation.

Website: