

"Pegaso Scholarships are funded with resources of the PR FSE 2021/27 in the frame of Giovani Si ([www.giovanisi.it](http://www.giovanisi.it)), the project organized by Regione Toscana to help young people become independent."

# DOCTORAL PROGRAMME IN ADVANCED AND SUSTAINABLE AGRICULTURAL-FORESTRY SYSTEMS

Director prof. Salvatore Moricca

XXXIX cycle – academic year 2024/2025

CUP Pegaso Scholarships 2024

B11I24000170009

<b>TECHNOLOGICAL AREA</b>	
<b>ADMINISTRATIVE OFFICE</b>	Department of Agriculture, Food, Environment and Forestry
<b>PARTNER INSTITUTIONS</b>	University of Pisa University of Siena
<b>CURRICULA</b>	<ol style="list-style-type: none"> <li>1. Sustainable Management of Agri-Food and Forestry Systems</li> <li>2. Precision Agriculture and Sustainability of Agri-Food Systems</li> <li>3. Smart Sustainable Agriculture</li> </ol>
<p><b>POSITIONS AVAILABLE: 8</b>                  Positions with Scholarship: 8                  Positions without Scholarship: <i>not available</i></p>	
<b>RANKING LIST FOR STANDARD POSITIONS SCHOLARSHIPS AVAILABLE: 7</b>	<p>2 - University of Florence                      1- University of Pisa                      1 - University of Siena                      3 - Regione Toscana Pegaso Scholarships 2024</p>
<b>RANKING LISTS FOR POSITIONS WITH SPECIFIC RESEARCH TOPICS SCHOLARSHIPS AVAILABLE: 1</b>	<p><b>Regione Toscana Pegaso Scholarships 2024*</b></p> <p><b>Thematic:</b> "Olive Oil Production Optimization: An Integrated Approach Using Smart Sensors, AI and Automation Solutions (POeSIA)"</p> <p>The POeSIA PhD scholarship is part of the smart agrifood sector (high quality agri-food production), based on some highly innovative key technologies. Artificial intelligence (AI) and machine learning (ML) are used to optimize production processes, improve food quality and safety, making food companies more efficient and competitive. Mechatronic and automation robotic solutions increase efficiency, precision and process safety. Sensors and intelligent devices are finally used to monitor and optimize production and organizational processes. The topic of the grant therefore intends to address the implementation of these modern technologies in the olive oil extraction</p>

	<p>process in the mill, not only analyzing their ability to increase the efficiency and quality of the product, but also to contribute to guaranteeing production more sustainable and safe, responding to the growing market needs for high quality agri-food products.</p> <p><i>* For Regione Toscana Pegaso Scholarships 2024 a period of <b>training/research</b> in an enterprise, a public research institution or other public institution (not a university) of at least <b>3 months</b> is <b>mandatorily</b> required.</i></p>
<b>STUDY/RESEARCH PERIODS ABROAD</b>	<ul style="list-style-type: none"> <li>- <b>6 months</b> for Pegaso Scholarships 2024 in standard ranking</li> <li>- <b>3 months</b> for scholarships</li> <li>- <b>3 months</b> for Pegaso scholarship with specific research topics</li> </ul>
<b>DOCUMENTS REQUIRED FOR THE ADMISSION</b>	<ul style="list-style-type: none"> <li>● Copy of the Identification Document</li> <li>● Self-declaration for qualifications obtained in Italy (laurea triennale, specialistica o magistrale o ciclo unico) with a list of all exams taken and their marks, title of the thesis and graduation mark (download the form <a href="#">here</a>, make sure you <b>fill in all the fields</b>)</li> <li>● Qualifications obtained abroad (Bachelor's and Master Degrees or combined cycle Degree) with a list of all exams taken and their marks, title of the thesis and graduation mark.</li> </ul> <p><i>The same documentation except for the final mark must be submitted by those who will graduate within 31/10/2024</i></p>
<b>DOCUMENTS REQUIRED FOR THE EVALUATION</b>	<p><b>MANDATORY</b></p> <ul style="list-style-type: none"> <li>● Curriculum vitae (European format)</li> <li>● Research Project</li> </ul> <p><b>OPTIONAL</b></p> <ul style="list-style-type: none"> <li>● List of publications</li> <li>● Any other scientific qualification document</li> </ul>
<b>RESEARCH PROJECT</b>	<p>The research project may be written in Italian or English and must not exceed 12,000 characters including spaces (excluding tables, figures, notes and bibliography). It must focus on the topics on which the research doctorate is based and explicitly indicate which of the three doctoral curricula it refers to (<a href="https://www.phd-safas.dagri.unifi.it/">https://www.phd-safas.dagri.unifi.it/</a>). The project must outline a possible research activity, to be carried out in the three-year period of the doctorate, which has high potential to bring innovative scientific contributions in the chosen topic. It must be structured as follows: title; introduction (scientific question, state of the art and objectives); materials and methods (with temporally articulated phases); expected results; bibliography. If the candidate is admitted to the doctoral course, the doctoral thesis project may deviate from the research project presented by him for admission.</p> <p>The candidate may present the same project for the standard scholarship and for any scholarship with specific research topic and separate ranking lists he/she intend to apply to, or alternatively may present different projects for each scholarship, indicating clearly to which scholarship each project refers.</p>

<b>INTERVIEW MODE</b>	<p><b>Remotely</b></p> <p>The interview can be taken in Italian or in English language. If in Italian, the English language knowledge is tested during the interview.</p>																		
<b>EVALUATION MARKS</b>	<table border="1" data-bbox="509 376 1433 779"> <thead> <tr> <th data-bbox="509 376 1090 450">parameter</th> <th data-bbox="1090 376 1262 450">minimum score</th> <th data-bbox="1262 376 1433 450">maximum score</th> </tr> </thead> <tbody> <tr> <td data-bbox="509 450 1090 524">Curriculum vitae, publications, other qualification documents</td> <td data-bbox="1090 450 1262 524">10/120</td> <td data-bbox="1262 450 1433 524">20/120</td> </tr> <tr> <td data-bbox="509 524 1090 573">Research Project</td> <td data-bbox="1090 524 1262 573">30/120</td> <td data-bbox="1262 524 1433 573">40/120</td> </tr> <tr> <td colspan="3" data-bbox="509 573 1433 651"><b>Applicants who obtain a mark of at least 40/120 according to the minimum score for each parameter will be admitted to the interview</b></td> </tr> <tr> <td data-bbox="509 651 1090 734">Interview: discussion of the research project and qualification documents</td> <td data-bbox="1090 651 1262 734">40/120</td> <td data-bbox="1262 651 1433 734">60/120</td> </tr> <tr> <td colspan="3" data-bbox="509 734 1433 779"><b>Eligibility is achieved with a minimum score of 80/120</b></td> </tr> </tbody> </table>	parameter	minimum score	maximum score	Curriculum vitae, publications, other qualification documents	10/120	20/120	Research Project	30/120	40/120	<b>Applicants who obtain a mark of at least 40/120 according to the minimum score for each parameter will be admitted to the interview</b>			Interview: discussion of the research project and qualification documents	40/120	60/120	<b>Eligibility is achieved with a minimum score of 80/120</b>		
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<b>FURTHER INFORMATION ABOUT THE EVALUATION PROCESS</b>	<p>The evaluation of curriculum vitae, research project, publications, scientific qualification documents will consider the candidate's preparation and skills in relation to the research topics of the curricula of the PhD programme. Discussion of the research project and of any other academic and scientific titles and publications will aim at evaluating the candidate's interest and motivation towards scientific research in the fields of interest of the PhD curricula.</p>																		
<p>Further information available at the following web page: <a href="https://www.phd-safas.dagri.unifi.it/">https://www.phd-safas.dagri.unifi.it/</a></p>																			

<b>EXAMINATION SCHEDULE</b>		
	<b>DATE</b>	<b>TIME</b>
<b>INTERVIEW</b>	September 18 <sup>th</sup> , 2024	09:30 a.m.
<p>The list of candidates admitted to the interview and the final ranking will be published at the following web page: <a href="https://www.unifi.it/p12693.html">https://www.unifi.it/p12693.html</a></p>		