

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

DOCTORAL PROGRAMME

IN

SMART COMPUTING

Director prof. Stefano Berretti

XXXIX cycle – academic year 2023/2024

CUP Pegaso Scholarships 2023

B11I23000170006

TECHNOLOGICAL AREA	
ADMINISTRATIVE OFFICE	Department of Information Engineering
PARTNER INSTITUTIONS	University of Pisa University of Siena
<p>POSITIONS AVAILABLE: 9 Positions with scholarship: 9 Positions without Scholarship: <i>not available</i></p>	
RANKING LIST FOR STANDARD POSITIONS SCHOLARSHIPS AVAILABLE: 7	2 - University of Florence 1 - University of Pisa 1 - University of Siena 3 - Regione Toscana Pegaso Scholarships 2023
RANKING LISTS FOR POSITIONS WITH SPECIFIC RESEARCH TOPICS SCHOLARSHIPS AVAILABLE: 2	<p>1 - Regione Toscana Pegaso Scholarships 2023* Thematic: “Automated Decomposition and quality Assessment of Monolithic systems into microservices for manufacturing districts”.</p> <p>1 - LEONARDO S.p.A. Thematic: “Use of neuromorphic sensors in the detection and recognition of fast moving subjects”.</p> <p><i>* For Regione Toscana Pegaso Scholarships 2023 a period of training/research in an enterprise, a public research institution or other public institution (not a university) of at least 3 months is mandatorily required.</i></p>
STUDY/RESEARCH PERIODS ABROAD	- 6 months for Pegaso Scholarships 2023 in standard ranking - 3 months for scholarships - 1-3 months for Pegaso scholarship with specific research topics
DOCUMENTS REQUIRED FOR THE ADMISSION	<ul style="list-style-type: none"> • Copy of the Identification Document

	<ul style="list-style-type: none"> • 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 here, make sure you fill in all the fields) • 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. <p><i>The same documentation except for the final mark must be submitted by those who will graduate within the 31/10/2023</i></p>						
<p>DOCUMENTS REQUIRED FOR THE EVALUATION</p>	<p>MANDATORY</p> <ul style="list-style-type: none"> • Curriculum vitae • Abstract of the M.Sc. thesis • Research project <p>OPTIONAL</p> <ul style="list-style-type: none"> • List of publications and any other qualification document • PDF copy or a chapter of the M.Sc. thesis (if available) 						
<p>RESEARCH PROJECT</p>	<p>The research proposal should be written in English and should be submitted as a PDF file. The length may not exceed 12,000 characters. The research proposal should describe a three years project having a high potential for a novel scientific contribution in any area related to smart computing. In the proposal, briefly summarize the state-of-the-art, identify one or more open problems, explain why solving these open problems is significant, and describe a research plan, possibly addressing the associated risk factors and strategies for dealing with them.</p> <p>The research proposal will not be used to bound the research in any particular area; it just serves the purpose of assessing the candidate technical writing skills, the ability to envision sensible long-term research goals, and the ability to plan and evaluate research activities.</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>						
<p>FURTHER INFORMATION</p>	<p>Thematic of interest are listed in the section below “Topics for the research project and the interview”. Additional thematic of interest are listed at: smartcomputing.unifi.it/procedures.html#positions</p>						
<p>INTERVIEW MODE</p>	<p>Remotely</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>						
<p>EVALUATION MARKS</p>	<table border="1"> <thead> <tr> <th>Parameter</th> <th>minimum score</th> <th>maximum score</th> </tr> </thead> <tbody> <tr> <td>Curriculum vitae, academic career, publications, qualification documents</td> <td>27/120</td> <td>40/120</td> </tr> </tbody> </table>	Parameter	minimum score	maximum score	Curriculum vitae, academic career, publications, qualification documents	27/120	40/120
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	<table border="1"> <tr> <td>Research proposal</td> <td>27/120</td> <td>40/120</td> </tr> <tr> <td colspan="3">Applicants who obtain a mark of at least 54/120 according to the minimum score for each parameter will be admitted to the interview</td> </tr> <tr> <td>Interview (including a discussion of the research proposal) in English language</td> <td>26/120</td> <td>40/120</td> </tr> <tr> <td colspan="3">Eligibility is achieved with a minimum score of 80/120</td> </tr> </table>	Research proposal	27/120	40/120	Applicants who obtain a mark of at least 54/120 according to the minimum score for each parameter will be admitted to the interview			Interview (including a discussion of the research proposal) in English language	26/120	40/120	Eligibility is achieved with a minimum score of 80/120		
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Eligibility is achieved with a minimum score of 80/120													
TOPICS FOR THE RESEARCH PROJECT AND THE INTERVIEW	<ul style="list-style-type: none"> • Artificial Intelligence • Computer Networking • Computer Vision • Computer Graphics • Computer Architectures • Conversational Agents • Data Analysis and Social Network Data Analysis • Fog/Edge computing in IoT • Embedded and Cyber-physical Systems • Machine Learning • Neuroinformatics • Pervasive Sensing & Computing • Quantitative evaluation and verification of concurrent systems • Security and Privacy in Smart Systems • Software architectures and engineering methods 												
<p>Further information available at the following web page: http://smartcomputing.unifi.it/</p>													

EXAMINATION SCHEDULE		
	DATE	TIME
INTERVIEW	September 15 th , 2023	10:00 a.m.
<p>The list of candidates admitted to the interview and the final ranking will be published at the following web page: https://www.unifi.it/p12398</p>		