



Unione europea
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Repubblica Italiana



REGIONE AUTONOMA DI SARDEGNA
REGIONE AUTONOMA DELLA SARDEGNA



PER 2014-2020
POR
SARDEGNA



UNIONE EUROPEA
Fondo Sociale Europeo



Ministero dell'Istruzione,
dell'Università e della Ricerca



PON
RICERCA
E INNOVAZIONE
2014 - 2020



Istituto Nazionale Previdenza Sociale



Università degli Studi di Cagliari

**International PhD Course in
Electronic and Computer Engineering
in cooperation with Southwest Jiaotong University**

Curriculum 1 - COMPUTER ENGINEERING AND AUTOMATIC CONTROL

Curriculum 2 - ELECTRONICS AND TELECOMMUNICATIONS

DISCIPLINARY SCIENTIFIC AREA	09 - INDUSTRIAL AND INFORMATION ENGINEERING
COORDINATOR	PROF. ALESSANDRO GIUA
HEAD DEPARTMENT	DEPARTMENT OF ELECTRICAL AND ELECTRONIC ENGINEERING
DURATION	3 YEARS
EDUCATIONAL OBJECTIVES AND RESEARCH TOPICS	<p>The PhD course in Electronic and Computer Engineering aims to train young researchers to make them ready to carry out academic and industrial research projects in the following areas:</p> <ol style="list-style-type: none"> 1. Automatic Control and Systems Engineering 2. Telecommunications 3. Electromagnetism 4. Electrical Circuits and Modelling 5. Industrial Electronics Power 6. Computer Engineering 7. Microelectronics 8. Electrical and Electronic Measurements <p>Central point of the doctoral education is the development of an original research project to be carried out in close contact with the supervisor and strongly aimed to the advancement of knowledge in the relevant field of engineering.</p> <p>The main goal of the course is to create professionals who find suitable job placement at academic institutions, research centres, high-tech firms, and that they are potentially able to initiate economic undertakings with high scientific and technological content.</p>
ELIGIBILITY AND OTHER REQUIREMENTS FOR CANDIDATE	<ul style="list-style-type: none"> - degree from the Italian university system awarded according to D.M. n. 509/1999 (diploma di laurea specialistica); - degree from the Italian university system awarded according to D.M. n. 270/2004 (diploma di laurea magistrale); - degree from the Italian university system awarded according to the regulations established before D.M. n. 509/1999 (diploma di laurea); - academic qualification issued by a foreign university recognized as equivalent. The foreign degree must be comparable in duration and content to the titles listed above and provide access to PhD courses in the country of achievement
ADMISSION TESTS	<p>ASSESSMENT OF QUALIFICATIONS, CURRICULUM VITAE, WRITTEN TEST AND INTERVIEW.</p> <p>All admission tests can be conducted in English.</p> <p>During the interview it will assess the knowledge of English language.</p> <p>Candidates who are not resident in Cagliari and who are unable, for justified reasons, to attend the interview at the registered office, can be</p>



	granted the opportunity to do the interview by teleconference, on the same date and time established for interviews in the presence, according to art. 4. of the call.
ADMISSION TESTS FOR FOREIGN CANDIDATES APPLYING FOR RESERVED POSITIONS SUPPORTED BY A SCHOLARSHIP	<p>EVALUATION OF THE CURRICULUM VITAE, REFERENCE LETTERS AND INTERVIEW.</p> <p>The interview can be conducted in English by teleconference with audio and video modality that allows the verification of the identity of the candidate.</p> <p>Reference letters have to be written in English, following the form available at https://www.unica.it/unica/it/studenti_s01_ss05.page (How to apply for PhD selection: Guidelines and forms - Annex C), on letterhead by a University professor or an expert in the scientific field(s) of the PhD programme.</p> <p>The curriculum vitae and letters of reference can be written in English.</p> <p>For foreign applicants, the dates of interviews by teleconference will be communicated to the interested parties via email.</p>
TOPICS OF WRITTEN TEST	The written test for the Italian candidates consists in the preparation of the support material (transparencies) for a scientific presentation on the topics of the doctoral program.
POSITIONS	10
SCHOLARSHIPS	<p>2 UNIVERSITY OF CAGLIARI (1 FONDI MIUR PL E 1 FONDI ATENEO), 1 RESERVED FOR FOREIGN CANDIDATES GRADUATES IN FOREIGN UNIVERSITIES;</p> <p>3 P.O.R. SARDEGNA F.S.E. 2014 - 2020 (SPECIALIZATION AREAS D.G.R. N. 43/12 DEL 01.09.2015: 1. ICT; 2. RETI INTELLIGENTI PER LA GESTIONE EFFICIENTE DELL'ENERGIA; 3. AGRIFOOD; 4. AEROSPAZIO; 5. BIOMEDICINA; 6. TURISMO E BENI CULTURALI);</p> <p>2 DEPARTMENT OF ELECTRICAL AND ELECTRONIC ENGINEERING PROJECT "API - Aeromobili a Pilotaggio remoto Intelligenti per il monitoraggio ambientale", SCHOLARSHIP SUPERVISOR: Dott. Paolo Meloni (GRANT: RICPOR_CTC_API_2018_BARBARO - PRINCIPAL INVESTIGATOR Prof. Massimo Barbaro).</p> <p>1 SKYLOGIC MEDITERRANEO S.R.L. PROJECT "Network optimization and service management on new GENERATION broadband satellite communications" SCHOLARSHIP SUPERVISOR Prof. Murrone Murrone.</p> <p>Scholarships with specific research topic will be awarded to candidates successfully positioned in the ranking list, obtaining the best score and a positive evaluation on the adequacy of their CV in carrying out the specific research topic connected to the scholarship.</p>
POSITIONS WITHOUT SCHOLARSHIP	2
POTENTIAL POSITIONS UNDER AN APPRENTICESHIP CONTRACT	1 COMPANY: Studio-A Automazione S.r.l PROJECT: Ricerca e Sviluppo di dispositivi Biomedicali a Radiofrequenza
REFERENCE PERSON	PROF. ALESSANDRO GIUA - PHONE: +390706755751 - EMAIL: gju@dice.unica.it
WEBSITE	http://www.dice.unica.it/DRIEI/