Disclaimer: Please note that only the Italian version of the present call for applications, issued with Rector's Decree No. 4958 of 25.10.20221, is legally binding, the English version is provided for informational purposes only. The original Italian version is available at https://unige.it/usg/it/dottorati-di-ricerca

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Curriculum: BIOENGINEERING (CODE 8899)

Coordinator: Giorgio Cannata	
Department of Information Technology, Bioengineering, Robotics and Systems Engineering-DIBRIS	
Places: 4-Grants: 4	
The annual gross amount of	the grant, including social security expenses to be paid by the recipient, is \notin 15.343,28.
A research period in compan	y (minimum 6 months) in Italy or abroad is expected
Comparative assessment	QUALIFICATIONS
procedure	
Further information on	Candidates must submit:
how to present	- the complete list of all the exams sat during their Bachelor's and Master's degree
qualifications/publications	and/or equivalents (BS, Master) specifying the average of marks or equivalent
	indicator.
	- the specific research themes candidates want to be evaluated on (see the list of
	research themes listed below and on the doctorate website:
	http://phd.dibris.unige.it/biorob/index.php/how-to-apply);
	- a project proposal related to one (or more) of the research themes offered (please use
	the template available at the website
	<u>http://pnd.dibris.unige.it/biorob/index.pnp/now-to-appiv/;</u>
	- a cumculum vitae et studiorum including all the technical scientific studies/activities
	- endorsement letters (maximum 3) from university professors or recognized experts in
	the field supporting the candidate
	- the candidate summary profile form available at
	http://phd.dibris.unige.it/biorob/index.php/how-to-apply
Research Themes	The Doctorate is selecting excellent candidates to work on innovative research topics
	in the area of bioengineering.
	The detailed description of the proposed research themes can be
	found at the following link:
	http://phd.dibris.unige.it/biorob/index.php/how-to-apply
Information on references	Candidates must choose not less than one and not more than three referees to endorse
	their candidature. The referees must be university professors or recognized experts in
	the field, and must send the reference letters (specifying their name, role and affiliation).
	within the deadline of the public notice, to the Coordinator of the Doctoral Course at the
	following address:
	phd.biorob@dibris.unige.it
Foreign Languages	English The detailed decovirties of the second decover and a form detaile following light
Further information	- The detailed description of the research themes can be found at the following link:
	<u>http://phd.dibhs.unige.it/bio100/index.php/now-to-appiy</u>
	- The template for the research project can be found at the following link:
	http://phd.dibris.unige.it/biorob/index.php/how-to-apply
	- The candidate summary profile form can be found at the following link:
	http://phd.dibris.unige.it/biorob/index.php/how-to-apply
	For further information about the research themes please contact:
	Prof. Paolo Massobrio
	paolo.mas sobrio@unige.it

Course in: BIOENGINEERING AND ROBOTICS

Curriculum: ROBOTICS AND AUTONOMOUS SYSTEMS (CODE 8900)

Coordinator: Giorgio Cann	iata	
Department of Information Technology, Bioengineering, Robotics and Systems Engineering-DIBRIS		
Places: 3–Grants: 3		
The annual gross amount of	The annual gross amount of the grant, including social security expenses to be paid by the recipient, is \notin 15.343,28.	
A research period in company (minimum 6 months) in Italy or abroad is expected		
Comparative assessment	QUALIFICATIONS	
procedure		
Further information on	Candidates must submit:	
how to present	- the complete list of all the exams sat during their Bachelor's and Master's degree and/or	
qualifications/publications	equivalents (BS, Master) specifying the average of marks or equivalent indicator.	
	- the specific research themes candidates want to be evaluated on (see the list of research	
	themes listed below and on the doctorate website:	
	nttp://pnd.dibris.unige.it/biorob/index.pnp/now-to-appiy);	
	template available at the website: http://phd dibris unice it/biorob/index.php/bow.to.apply):	
	- a curriculum vitae et studiorum including all the technical scientific studies/activities	
	already done and pertinent to the doctoral programme.	
	- endorsement letters (maximum 3) from university professors or recognized experts in the	
	field supporting the candidate.	
	- the candidate summary profile form available at	
	http://phd.dibris.unige.it/biorob/index.php/how-to-apply	
Research Themes	The Doctorate is selecting excellent candidates to work on innovative research topics in the	
	area of robotics and autonomous systems.	
	The detailed description of the proposed research themes can be	
	found at the following link:	
	http://phd_dibrig.upicg.it/higrop/index.php/how_to_opply	
Information on references	<u>Inter // pild.dibits.unige.it/bio100/index.pii//ilow-to-appiv</u>	
Information on references	candidature. The referees must be university professors or recognized experts in the field and	
	must send the reference letters (specifying their name, role and affiliation) within the deadline	
	of the public notice, to the Coordinator of the Doctoral Course at the following address:	
	phd.biorob@dibris.unige.it	
Foreign Languages	English	
Further Information	- The detailed description of the research themes can be found at the following link:	
	http://phd.dibris.unige.it/biorob/index.php/how-to-apply	
	- The template for the research project can be found at the following link	
	http://phd.dibris.unige.it/biorob/index.php/how-to-apply	
	- The candidate summary profile form can be found at the following link:	
	http://phd.dibris.unige.it/biorob/index.php/how-to-apply	
	For further information about the research themes please contact:	
	Prof Giorgio Cannata	
	giorgio cannata@unige.it	

Curriculum: BIOIMAGING (CODE 8901)

Coordinator: Rodolfo Quarto			
Department of Experimental Medicine			
Places: 1–Grants: 1			
The annual gross amount of	The annual gross amount of the grant, including social security expenses to be paid by the recipient, is €15.343,28.		
A research period in company (minimum 6 months) in Italy or abroad is expected			
Comparative assessment	QUALIFICATIONS/PUBLICATIONS AND INTERVIEW		
procedure			
Interview	Date, hour and how the interview will be carried out will be posted by 11.11.2021 on the web page https://unige.it/usg/it/dottorati-di-ricerca		
Further information on	All candidates are asked to submit a research project proposal (max 2 A4 sheets, font size 12)		
how to present	together with the qualifications. The project will be evaluated by the commission together		
qualifications/publications	with the qualifications and discussed during the oral interview.		
Exam Syllabus	Interview on the titles and on the research project presented.		
Research Themes	New imaging methodologies and techniques for the diagnosis, evaluation and management of sarcopenia in normal and pathological conditions.		
Information on references	Candidates must choose not less than one and not more than three referees to support the application. These contacts must be university professors or experts in the subject. The referents will be responsible for sending the reference letters, within the deadline of the notice, to the Coordinator of the doctoral course at the following address: rodolfo.quarto@unige.it In the application for admission, candidates must indicate: the name, qualification and place of employment of the chosen contact persons.		
Foreign Languages	English.		
Further Information	Coordinator: Prof. Rodolfo Quarto - Department of Experimental Medicine - Tel. 0105558240 - rodolfo.quarto@unige.it		
	Project contact person (to whom to request scientific information): Prof. Carlo Martinoli - Department of Health Sciences - Tel. 0105555248 – carlo.martinoli@unige.it		
	Organizing Secretariat (to request technical information): Mr. Enrico Zeraschi - Department of Experimental Medicine - Tel. 0105558266 - enrico.zeraschi@unige.it		

Curriculum: TRANSLATIONAL SURGERY (CODE 8902)

Coordinator: Rodolfo Quarto			
Department of Experimental Medicine			
Places: 1 – Grants: 1	Places: 1 – Grants: 1		
The annual gross amount of the grant, including social security expenses to be paid by the recipient, is $\notin 15.343, 28$.			
A research period in company (minimum 6 months) in Italy or abroad is expected			
Comparative assessment	QUALIFICATIONS/PUBLICATIONS AND INTERVIEW		
procedure			
Interview	Date, hour and how the interview will be carried out will be posted by 11.11.2021 on the web page https://unige.it/usg/it/dottorati-di-ricerca		
Further information on	All candidates are asked to submit a research project proposal (max 2 A4 sheets, font size 12)		
how to present	together with the qualifications. The project will be evaluated by the commission together		
qualifications/publications	with the qualifications and discussed during the oral interview.		
Exam Syllabus	Interview on the titles and on the research project presented.		
Research Themes	Application of Deep Learning to diagnostic imaging for the customization of the diagnostic -		
	therapeutic process and patient follow-up.		
Information on references	Candidates must choose not less than one and not more than three referees to support the		
	application. These contacts must be university professors or experts in the subject. The referents		
	will be responsible for sending the reference letters, within the deadline of the notice, to the		
	Coordinator of the doctoral course at the following address: rodolfo.quarto@unige.it		
	In the application for admission, candidates must indicate: the name, qualification and place of		
	employment of the chosen contact persons.		
Foreign Languages	English		
Further Information	Coordinator: Prof Rodolfo Quarto - Department of Experimental Medicine - Tel		
	0105558240 - rodolfo.guarto@unige.it		
	Project contact person (to whom to request scientific information): Prof. Giovanni Spinella -		
	Department of Integrated Surgical and Diagnostic Sciences - Tel. 0105552424 -		
	giovanni.spinella@unige.it		
	Organizing ecretariat (to request technical information): Mr. Enrico Zeraschi - Department of		
	Experimental Medicine - Tel. 0105558266 - enrico.zeraschi@unige.it		

Curriculum: FLUID DYNAMICS AND ENVIRONMENTAL ENGINEERING (CODE 8903)

Coordinator: Roberta Massabò	
Department of Civil, Chemical and Environmental Engineering	
Places: 1 – Grants: 1	
The annual gross amount of	The grant, including social security expenses to be paid by the recipient, is \notin 15.343,28.
A research period in compan	y (minimum 6 months) in Italy or abroad is expected
Comparative assessment	QUALIFICATIONS/PUBLICATIONS AND INTERVIEW
procedure	
Interview	Date, hour and how the interview will be carried out will be posted by 11.11.2021 on the web
	page https://unige.it/usg/it/dottorati-di-ricerca
Further information on	The application (curriculum) must contain Transcripts of Records, stating the courses attended
how to present	and marks obtained throughout the candidate's university career (Bachelor and M.Sc. degrees;
qualifications/publications	Laurea Triennale and Magistrale degrees). The transcripts of Records must be official
	documents released by the universities which awarded the degrees. Undergraduate candidates
	at the deadline of the public notice may submit further documentation, which they deem
	appropriate, in order to document their university career.
	The knowledge of foreign languages certified by an international certificate (TOEFL, CPE,
	CAE, FCE,) attached to the cv would be an asset.
Exam Syllabus	The interview will be a detailed scientific discussion on the candidate's research project,
	Curriculum Vitae et Studiorum (10 pages max) and qualifications/publications (10 pages max).
	The interview is also aimed at verifying that the candidate has adequate knowledge to deal with
	studies in the chosen curriculum.
Research Themes	The research project (10 pages max) must be prepared on one of the Projects listed in
	http://dottorato.dicca.unige.it/documents/lista progetti sito dottorato.pdf
	under the general Thematic "Water engineering approaches for green energy production and
	saving and for mitigation of the effects of climate change on water bodies and ecosystems".
	The project must be prepared under the guidance of the referent of the Project in the list above.
	Submitting projects on different thematics may result in exclusion from the public exam. The
	project must include the title of the General Thematic, the title of the Project (from the list
	above), the candidate's research interests and motivations, a short abstract, the State of the Art
	and relevant references and the objectives of the research activity.
	Additional information on the research themes of the course are on the course web page:
	http://dottorato.dicca.unige.it/eng/fluamb/, curriculum in "Fluid Dynamics and Environmental
	Engineering".
Information on references	Candidates must choose at least one and no more than three referees to support ther
	candidature. One of the referees must be the referent of the chosen Project from the list m
	http://dottorato.dicca.unige.it/documents/lista progetti sito dottorato.pdf. The referees must
	be university professors or experts in the subject. The reference letter must be sent by the
	referee, within the deadline of the public notice, to the doctoral secretariat at
	dottorato.dicca@unige.it using an institutional account.
	In the referee is not a university professor, he/she must also send the curriculum vitae and a
	list of publications. The name, status and current position of the referees chosen by the
	Patiential indication in the application.
Foreign Languages	En alish
Further Information	http://dottorsto.dicca.upige.it/eng/
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Curriculum: CHEMICAL, MATERIALS AND PROCESS ENGINEERING (CODE 8904)

Coordinator: Roberta Massabò	
Department of Civil, Chemical and Environmental Engineering	
Places: 2–Grants: 2	
The annual gross amount of	the grant, including social security expenses to be paid by the recipient, is \notin 15.343,28.
A research period in company (minimum 6 months) in Italy or abroad is expected	
Comparative assessment	QUALIFICATIONS/PUBLICATIONS AND INTERVIEW
procedure	
Interview	Date, hour and how the interview will be carried out will be posted by 11.11.2021 on the web
	page https://unige.it/usg/it/dottorati-di-ricerca
Further information on	The application (curriculum) must contain Transcripts of Records, stating the courses attended
how to present	and marks obtained throughout the candidate's university career (Bachelor and M.Sc. degrees;
qualifications/publications	Laurea Triennale and Magistrale degrees). The transcripts of Records must be official
	documents released by the universities which awarded the degrees. Undergraduate candidates
	at the deadline of the public notice may submit further documentation, which they deem
	appropriate, in order to document their university career.
	The knowledge of foreign languages certified by an international certificate (TOEFL, CPE,
	CAE, FCE,) attached to the cv would be an asset.
Exam Syllabus	The interview will be a detailed scientific discussion on the candidate's research project,
-	Curriculum Vitae et Studiorum (10 pages max) and qualifications/publications (10 pages max).
	The interview is also aimed at verifying that the candidate has adequate knowledge to deal with
	studies in the chosen curriculum.
Research Themes	The research project (10 pages max) must be prepared on one of the Projects listed in
	http://dottorato.dicca.unige.it/documents/lista progetti sito dottorato.pdf
	under the general Thematic "Green processes and technologies of chemical engineering aimed
	at environmental sustainability, energy transition and circular economy". The project must be
	prepared under the guidance of the referent of the Project in the list above. Submitting projects
	on different thematics may result in exclusion from the public exam. The project must include
	the title of the General Thematic, the title of the Project (from the list above), the candidate's
	research interests and motivations, a short abstract, the State of the Art and relevant references
	and the objectives of the research activity.
	Additional information on the research themes of the course are on the course web page
	http://dottorato.dicca.unige.it/eng/chmatpr/, curriculum in "Chemical, Materials and Process
	Engineering".
Information on references	Candidates must choose at least one and no more than three referees to support their
	candidature. One of the referees must be the referent of the chosen Project from the list in
	http://dottorato.dicca.unige.it/documents/lista_progetti_sito_dottorato.pdf. The referees must
	be university professors or experts in the subject. The reference letter must be sent by the
	referee, within the deadline of the public notice, to the doctoral secretariat at
	dottorato.dicca@unige.it using an institutional account.
	If the referee is not a university professor, he/she must also send the Curriculum Vitae and a
	list of publications. The name, status and current position of the referees chosen by the
	candidate must be stated in the application.
	Reference letters that are not presented as requested will not be taken into consideration.
Foreign Languages	English
Further Information	http://dottorato.dicca.unige.it/eng/
	Prof. Attilio Converti
	converti@unige.it

Curriculum: STRUCTURAL AND GEOTECHNICAL ENGINEERING, MECHANICS AND MATERIALS (CODE 8905)

Coordinator: Roberta Massabò		
Department of Civil, Chemical and Environmental Engineering		
Places: 1 – Grants: 1	Places: 1 – Grants: 1	
The annual gross amount of	the grant, including social security expenses to be paid by the recipient, is \notin 15.343,28.	
A research period in compan	y (minimum 6 months) in Italy or abroad is expected	
Comparative assessment	QUALIFICATIONS/PUBLICATIONS AND INTERVIEW	
procedure		
Interview	Date, hour and how the interview will be carried out will be posted by 11.11.2021 on the web	
	page https://unige.it/usg/it/dottorati-di-ricerca	
Further information on	The application (curriculum) must contain Transcripts of Records, stating the courses attended	
how to present	and marks obtained throughout the candidate's university career (Bachelor and M.Sc. degrees;	
qualifications/publications	Laurea Triennale and Magistrale degrees). The transcripts of Records must be official	
	documents released by the universities which awarded the degrees. Undergraduate candidates	
	at the deadline of the public notice may submit further documentation, which they deem	
	appropriate, in order to document their university career.	
	The knowledge of foreign languages certified by an international certificate (TOEFL, CPE,	
	CAE, FCE,) attached to the cv would be an asset.	
Exam Syllabus	The interview will be a detailed scientific discussion on the candidate's research project,	
	Curriculum vitae et Studiorum (10 pages max) and qualifications/publications (10 pages max).	
	I ne interview is also almed at verifying that the candidate has adequate knowledge to deal with	
Descench Thomas	Studies in the chosen curriculum.	
Research memes	http://dottorsto.diooo.unioo.it/documento/listo.mroootti.sito.dottorsto.ndf	
	under the general Thematic "Monitoring modelling and technological innevation to reduce the	
	impacts of climate change and promote sustainable development of structures infrastructures	
	and urbanized any iron mants" The project must be prepared under the guidance of the referent	
	of the Project in the list above. Submitting projects on different thematics may result in	
	avelusion from the public even. The project must include the title of the General Thematic the	
	title of the Project (from the list above) the candidate's research interests and motivations a	
	short abstract the State of the Art and relevant references and the objectives of the research	
	activity	
	Additional information on the research themes of the course are on the course web page	
	http://dottorato.dicca.unige.it/eng/stmatgeo/. curriculum in "Structural and Geotechnical	
	Engineering, Mechanics and Materials"	
Information on references	Candidates must choose at least one and no more than three referees to support their	
	candidature. One of the referees must be the referent of the chosen Project from the list in	
	http://dottorato.dicca.unige.it/documents/lista progetti sito dottorato.pdf. The referees must	
	be university professors or experts in the subject. The reference letter must be sent by the	
	referee, within the deadline of the public notice, to the doctoral secretariat at	
	dottorato.dicca@unige.it using an institutional account.	
	If the referee is not a university professor, he/she must also send the Curriculum Vitae and a	
	list of publications. The name, status and current position of the referees chosen by the	
	candidate must be stated in the application.	
	Reference letters that are not presented as requested will not be taken into consideration.	
Foreign Languages	English	
Further Information	http://dottorato.dicca.unige.it/eng/	
	Prof. Maria Pia Repetto	
	repetto@dicca.unige.it	

Course in: DIGITAL HUMANITIES. DIGITAL TECHNOLOGIES, THE ARTS, LANGUAGES, CULTURES AND COMMUNICATION

In agreement with the University of Turin

Curriculum: LANGUAGES, CULTURES AND DIGITAL TECHNOLOGIES (CODE 8906)

Coordinator: Giovanni Ad	Coordinator: Giovanni Adorni	
Dipartment of Modern Languages and di Cultures (DLCM)		
Places: 2-Grants: 2		
The annual gross amount of	the grant, including social security expenses to be paid by the recipient, is $\notin 15.343.28$.	
A research period in compan	y (minimum 6 months) in Italy or abroad is expected	
Comparative assessment	OUALIFICATIONS/PUBLICATIONS AND INTERVIEW	
procedure		
Interview	Date hour and how the interview will be carried out will be posted by 11,11,2021 on the	
	web page https://unige.it/usg/it/dottorati-di-ricerca	
Further information on	Together with their qualifications applicants must enclose a research project on a topic	
how to present	related to Digital Humanities and consistent with the themes and objectives specified in	
qualifications/publications	the 'Research Topics' section.	
1	The project should be structured in the following sections:	
	- title:	
	- summary:	
	- objectives of the research project:	
	- analysis of existing literature on the research topic:	
	- research problems that you want to face and to which you want to give an answer:	
	- methodologies that you plan to use to achieve the objectives:	
	- expected results at the end of the three-year research period.	
	The project will be evaluated according to	
	- clarity of objectives, hypotheses and methodological approach of the research;	
	- originality and innovativeness of the proposal with respect to the reference literature;	
	- clear feasibility of the timing of the work phases;	
	- a solid bibliographical basis.	
	The candidate should also indicate potential foreign partner research centres/places to	
	carry out the research.	
	The project must be no longer than 4000 words plus references.	
Research Themes	1 - 1 - Digital technologies to support linguistic and literary research (in diachronic	
	and synchronic perspective, on specific literary genres, on socio-literary issues, on	
	intermediality): development of models and multimedia and networked products,	
	corpus analysis, etc. Computational linguistics for text analysis, information	
	extraction, classification and interpretation of content and its relationships, as a basis	
	for the development of conversational interfaces, intelligent digital resources (e.g.,	
	MOOCs and intelligent texts), personalized learning paths, for language simplification	
	and the creation of annotated resources.	
	2 - Digitalization an semantic enrichment of cultural resources for the personalization	
	of their remote fruition: definition of guidelines and methods for the development of	
	digitalization workflows and multimedial document enrichment, in order to make it	
	easier and effective to design remote visit pathways, personalized according to the	
	preferences of the exptected audience and devices used for the access.	
Information on references	Applicants must choose no fewer than one and no more than three referees to support	
	their application. These referees must be university lecturers or experts in the field.	
	It will be the responsibility of the referees supporting the application to send the letters	
	of reference by the deadline of the call to the PhD coordinator at the address:	
	giovanni.adorni@unige.it, and for information to the addresses: elisa.bricco@unige.it	
	and iuisa.zito @ unige.it.	
	in the application form, candidates must indicate the name, position and place of	
Tonoign Longers and	employment of their chosen referees.	
roreign Languages	Applicants must demonstrate knowledge of at least two foreign languages chosen from	
Further Information	Laighsil ann 17011011. Tha administrative contact person for the DhD is Ma Luises Zite, luise site Queries it	
	The autimits trative contact person for the THD is wis Luisa Zito. Iuisa.Zito@ullige.it	

Course in: DIGITAL HUMANITIES. DIGITAL TECHNOLOGIES, THE ARTS, LANGUAGES, CULTURES AND COMMUNICATION

In agreement with the University of Turin

Curriculum: LINGUISTICS, APPLIED LINGUISTICS AND ONOMASTICS (CODE 8907)

Coordinator: Giovanni Ad	orni	
Dipartment of Modern Languages and di Cultures (DLCM)		
Places: 1 – Grants: 1	Places: 1–Grants: 1	
The annual gross amount of	The grant, including social security expenses to be paid by the recipient, is \notin 15.343,28.	
A research period in compan	y (minimum 6 months) in Italy or abroad is expected	
Comparative assessment	QUALIFICATIONS/PUBLICATIONS AND INTERVIEW	
procedure		
Interview	Date, hour and how the interview will be carried out will be posted by 11.11.2021 on	
	the web page https://unige.it/usg/it/dottorati-di-ricerca	
Further information on	Together with their qualifications, applicants must enclose a research project on a topic	
how to present	related to Digital Humanities and consistent with the themes and objectives specified in	
qualifications/publications	the Research Topics' section.	
	The project should be structured in the following sections:	
	- title;	
	- summary;	
	- objectives of the research project,	
	- analysis of existing include on the research topic,	
	- methodologies that you plan to use to achieve the objectives:	
	- expected results at the end of the three-year research period	
	The project will be evaluated according to	
	- clarity of objectives, hypotheses and methodological approach of the research;	
	- originality and innovativeness of the proposal with respect to the reference literature;	
	- clear feasibility of the timing of the work phases;	
	- a solid bibliographical basis.	
	The candidate should also indicate potential foreign partner research centres/places to	
	carry out the research.	
	The project must be no longer than 4000 words plus references.	
Research Themes	Study and development of a serious game in virtual reality (VR) in which players can	
	experience intercomprehension in an environment specifically designed to elicit	
	interaction in different languages. In this context, intercomprehension is the ability to	
	understand a foreign language on the basis of another language without having studied	
	it. The development of language skills in plurilingual environments is a strong need in	
	those contexts where the use of a lingua franca is difficult and sometimes becomes an	
	obstacle to the proper flow of communication.	
Information on references	A philicents must choose no fewer then one and no more then three referees to support	
mormation on references	their application. These referees must be university lecturers or experts in the field	
	It will be the responsibility of the referees supporting the application to send the letters	
	of reference by the deadline of the call to the PhD coordinator at the address:	
	giovanni.adorni@unige.it. and for information to the addresses: elisa.corino@unito.it	
	veronica.orazi@unito.it and luisa.zito@unige.it.	
	In the application form, candidates must indicate the name, position and place of	
	employment of their chosen referees.	
Foreign Languages	Applicants must demonstrate knowledge of at least two foreign languages chosen from	
	English, French, Spanish and Portuguese. Non-Italian applicants must also demonstrate	
	knowledge of Italian.	
Further Information	The administrative contact person for the PhD is Ms Luis a Zito: luis a.zito@unige.it	
1		

Course in: LAW STUDIES

Coordinator: Pierluigi Chias	soni	
Department of Law		
Places: 1 – Grants: 1		
The annual gross amount of the grant, including social security expenses to be paid by the recipient, is €15.343,28.		
A research period in company (minimum 6 months) in Italy or abroad is expected		
Comparative assessment	QUALIFICATIONS	
procedure		
Further information on	1. Under penalty of exclusion, candidates must submit:	
how to present		
qualifications/publications	b) a research project on the theme of research specified below at the "Research Theme" point.	
	 2. From the CV and other documents enclosed the following data should result: a) University degree and the final note or qualification thereof; b) any other part lawyour document (like a graduate document); 	
	b) any other post-lauream degree (like, e.g., Master degrees);	
	d) research experiences and research and educational activities, if any.	
	3. The research project must have a maximum length of 10000 characters, spaces and essential bibliographical references included, under penalty of exclusion. The research project must pertain to the INNOVATION research theme singled out in the box "Research Theme" below, under penalty of exclusion. The research project must contain, under penalty of exclusion, a clear statement of the topic, goals, and stages of the research activity, along with essential bibliographical references. The research project can be written, on the candidate's choice, in Italian, French, English, or Spanish.	
	4. Candidates may enclose publications and any other document they consider relevant to the purpose of the present competition.	
Research Theme	"Innovative Drafting of Legal Sources. Economization and optimization in the drafting of legal documents". The success of public policies depends in a paramount way on the technical adequacy of the legal documents that convey legal prescriptions. The PhD grant will be accorded to a INNOVATION research project concerning the use of digital technologies, artificial intelligence, or models of virtual reality to the purpose of economizing and optimizing the drafting of legal documents (like, e.g., statutes, executive orders, judicial decisions, administrative regulations, etc.), paying particular attention to communicative clarity, determinacy and simplicity, internal coherence, coherence with other legal documents, completeness, and not redundancy. In so doing, the focus will be on those legal documents concerning the law of environmental protection, green transition, ecosystem preservation, biodiversity, and the reduction of climatic changes' impact.	
Information on references	Candidates must provide up to three letters of reference (minimum one) supporting their	
	application. The letters must be written by Academics or Experts in the research topics of the Curriculum. They will send their letter of reference, within the deadline established in the Call, directly to the following address: pierluigi.chiassoni@unige.it, stefania.vircillo@giuri.unige.it	
	In their application form, upon penalty of forfeiture, candidates must point out the name, the qualification, and the workplace of the persons that have written reference letters for them.	
Foreign Languages	English, Spanish	
Further Information	During the three years of the Doctoral Program (and preferably during the second year) PhD candidates shall spend a minimum six-months period of study and research at a selected firm.	
	Referente del curriculum/Curriculum coordinator: Prof. Pierluigi Chiassoni pierluigi.chiassoni@unige.it Referente amministrativo/Curriculum secretary: dott.ssa Stefania Vircillo stefania.vircillo@giuri.unige.it	

Curriculum: INTERNATIONAL LAW (COMMERCIAL, EUROPEAN UNION AND INTERNATIONAL LAW) (CODE 8909)

Coordinator: Pierluigi Chiassoni		
Department of Law		
Places: 1 – Grants: 1		
The annual gross amount of the grant, including social security expenses to be paid by the recipient, is \notin 15.343,28.		
A research period in com	pany (minimum 6 months) in Italy or abroad 1s expected	
Comparative	QUALIFICATIONS	
assessment procedure	1 Undernenster forskrive og dideter undet sekuite	
Further Information	1. Under penalty of exclusion, candidates must submit: $r = r^{1}$	
on now to present	a) a UV, b) a research project on that home of research specified below at the "Descarch Theme" point	
tions	b) a research projecton the theme or research specified below at the Research Theme point.	
tions	2. From the CV and other documents enclosed the following data should result:	
	a) University degree and the final note or qualification thereof	
	b) any other post-lauream degree (like e.g. Master degrees).	
	c) nublications concerning the research tonic of the present Curriculum if any:	
	d) research experiences and research and educational activities if any	
	a) research experiences and research and educational denvices, it any.	
	3. The research project must have a maximum length of 10000 characters, spaces and	
	essential bibliographical references included, under penalty of exclusion. The research project	
	must pertain to the research theme singled out in the box "Research Theme" below, under	
	penalty of exclusion. The research project must contain, under penalty of exclusion, a clear	
	statement of the topic, goals, and stages of the research activity, along with essential	
	bibliographical references. The research project can be written, on the candidate's choice, in	
	Italian, French, English, or Spanish.	
	4 Can didatage may an alogo myblications and any other do sympattly as a grider relevant to the	
	4. Candidates may enclose publications and any other document they consider relevant to the	
Degeauch Thoma	purpose of the present competition.	
Research Theme	on FSG information and the provision of investment products to facilitate the transition to a	
	more sustainable economic system. The European regulatory framework is geared towards	
	adopting measures to enable investors to make informed decisions also from a sustainability	
	perspective. The revision of disclosure and duties of financial operators in terms of	
	organization, risk management and conduct, in order to take into account sustainability	
	factors, will have a significant impact on investment decisions. The candidate will critically	
	examine the European and national regulations on sustainable finance, already adopted or in	
	preparation, in order to assess the effectiveness and adequacy of these policies and regulatory	
	choices, as well as the socio-economic implications arising from sustainability-oriented	
	financial choices, organizational structures and models and related regulation. Particular	
	attention will be given to the link between non-financial corporate information and duties of	
	financial intermediaries, the role of ESG ratings and the impact and possible contribution of	
	digital finance.	
Information on	Candidates must provide up to three latters of reference (minimum one) supporting their	
references	annication. The letters must be written by Academics or Experts in the research topics of the	
i cici ciices	Curriculum They will send their letter of reference, within the deadline established in the	
	Call directly to the following address: michele siri@unige it and in conv to	
	maria stefanja lavezzo@unige it	
	In their application form, upon penalty of forfeiture, candidates must point out the name, the	
	qualification, and the workplace of the persons that have written reference letters for them.	
Foreign Languages	English	
Further Information	The ideal candidate should have a thorough knowledge of financial market law and European	
	law (experience in comparative or empirical research would be a plus) and an adequate	
	awareness of the functioning of both financial markets and corporate governance. The	
	candidate should also show intellectual and interdisciplinary curiosity, critical thinking,	
	commitment, passion for research, ability to work in a team and motivation to participate in	
	an international network of young scholars at EUSFIL the Jean Monnet Centre of Excellence	
	on Sustainable Finance and Law (www.eustii.eu).	

The winner of the scholarship will have to spend a period of study and research of six months
at the company that will be indicated to him/her.
Scientific referee: Michele Siri E-mail: michele.siri@unige.it
Curriculum secretary: Stefania Lavezzo E-mail: maria.stefania.lavezzo@unige.it

Course in: LAW STUDIES

Curriculum: PRIVATE LAW (LABOUR, PRIVATE, PRIVATE COMPARATIVE AND CIVIL PROCEDURAL LAW) (CODE 8910)

Coordinator: Pierluigi Chiassoni		
Department of Law		
Places: 1 – Grants: 1		
The annual gross amount of the grant, including social security expenses to be paid by the recipient, is € 15.343,28.		
A research period in co	mpany (minimum 6 months) in Italy or abroad is expected	
Comparative	QUALIFICATIONS	
assessment		
procedure		
Further information	1. Under penalty of exclusion, candidates must submit:	
on how to present	a) a CV;	
quantications/public	b) a research project on the theme of research specified below at the Research Theme point.	
ations	2 From the CV and other documents enclosed the following data should result:	
	2) University degree and the final note or qualification thereof:	
	a) Oniversity degree and the minimum of or quantization thereof,	
	b) any other post-hauream degree (like, e.g., Master degrees);	
	c) publications concerning the research topic of the present curriculum, if any;	
	a) research experiences and research and educational activities, if any.	
	2. The recent project must have a maximum length of 10000 cheresters, appear and accential	
	bibliographical references included under penalty of exclusion. The research project must	
	nertain to the research theme singled out in the hoy "Research Theme" helow under penalty of	
	exclusion The research project must contain under penalty of exclusion a clear statement of	
	the tonic goals and stages of the research activity along with essential bibliographical	
	references The research project can be written on the candidate's choice in Italian French	
	Findlish or Snanish	
	4. Candidates may enclose publications and any other document they consider relevant to the	
	purpose of the present competition.	
Research Theme	"The theme of the research will concern "the GREEN law of public and private buildings".	
	In particular, the theme of the research will concern the energy efficiency and sismic	
	compliance of public and private buildings in the framework of the legislation provided by the	
	"Decreto Rilancio" on super-ecobonus and super-sismabonus	
	The PhD scholarship will be awarded to the research project in which will be studied and	
	developed in depth, in an interdisciplinary way, the issues concerning: 1) technical interventions	
	of energy efficiency and seismic; 2) tax profiles; 3) contractual; 4) profiles of condominum	
T C U		
Information on	Candidates must provide up to three letters of reference (minimum one) supporting their	
references	application. The letters must be written by A cademics or Experts in the research topics of the	
	Curriculum. They will send their letter of reference, within the deadline established in the Call,	
	directly to the following address: pierluigi.chiassoni@unige.it, stefania.vircillo@giuri.unige.it	
	In their application form, upon penalty of forfeiture, candidates must point out the name, the	
	qualification, and the workplace of the persons that have written reference letters for them.	
Foreign Languages	English	
Further	During the three years of the Doctoral Program (and preferably during the second year) PhD	
Information	candidates shall spend a minimum six-months period of study and research at a selected firm	
	Defense to delemente de l'estation de la contractione de la contractio	
	Referente del curriculum/ Curriculum coordinator: Prof. A lessandra Pinori	
	A lessandra.pinori@giuri.unige.it	
	Referente amministrativo / Curriculum secretary:	
	dott.ssa Stefania Lavezzo Maria Stefania Lavezzo(a) unige it	

Course in: LAW STUDIES

Curriculum: PUBLIC LAW (ADMINISTRATIVE, CONSTITUTIONAL, CRIMINAL, CRIMINAL PROCEDURAL AND TAX LAW) (CODE 8911)

Coordinator: Pierluigi Chiassoni	
Department of Law	
Places: 1 – Grants: 1	
The annual gross amount	of the grant, including social security expenses to be paid by the recipient, is \notin 15.343,28.
A research period in compa	any (minimum 6 months) in Italy or abroad is expected
Comparative	QUALIFICATIONS
assessment procedure	
Further information on	1. Under penalty of exclusion, candidates must submit:
how to present	a) a CV;
quanneations/publicau	b) a research project on the theme of research specified below at the Research Theme point.
OHS	2. From the CV and other documents enclosed the following data should result:
	a) University degree and the final note or qualification thereof
	b) any other nost-lauream degree (like e.g. Master degrees).
	a) publications concerning the research tonic of the present Curriculum if any:
	d) research experiences and research and educational activities if any
	d) research experiences and research and educational activities, it any.
	3. The research project must have a maximum length of 10000 characters, spaces and essential
	bibliographical references included, under penalty of exclusion. The research project must
	pertain to the research theme singled out in the box "Research Theme" below, under penalty of
	exclusion. The research project must contain, under penalty of exclusion, a clear statement of
	the topic, goals, and stages of the research activity, along with essential bibliographical
	references. The research project can be written, on the candidate's choice, in Italian, French,
	English, or Spanish.
	4 Candidates may enclose publications and any other document they consider relevant to the
	numose of the present competition.
Research Theme	"Criminal proceedings for environmental offences and incentives for their green definition". In
	the context of criminal proceedings for environmental offenses, punitive needs coexist with
	those related to environmental restoration. The l. n. 68/2015 amended d.lgs. 152/2006 (T.U.A.)
	providing for a specific hypothesis of extinction of environmental misdemeanors, governed by
	art. 318-bis and ss. This mean of extinction of the offence represents a direct green definition
	of criminal proceedings from a double point of view: it pushes for restoration of the status quo
	prior to the commission of the crime, with evident positive impact on the protection of the
	environment, and it also open the door to an alternative definition of the proceedings, with a
	sure deflationary effect. It should also be remembered that it makes possible to move away from
	the imposition of a traditional sanction, in relation to which the convicted person is passive,
	making nim/net active in the fulfillent of the prescriptions, with further possible special-
	impairment and determines saving of resources within the administration of justice
	The PhDs cholarshin will be awarded to a research project concerning the procedural aspects of
	the above described mean for extinction of the misdemeanors which also includes all the other
	green aspects of the proceedings relating to environmental crimes.
Information on	Candidates must provide up to three letters of reference (minimum one) supporting their
references	application. The letters must be written by Academics or Experts in the research topics of the
	Curriculum.
	They will send their letter of reference, within the deadline established in the Call, directly to
	the following address:mitja.gialuz@unige.it, maria.stefania.lavezzo@unige.it
	In their application form, upon penalty of forfeiture, candidates must point out the name, the
Founian Longuages	qualification, and the workplace of the persons that have written reference letters for them.
Foreign Languages	English, Spanish, Flench During the three years of the Dectoral Program (and proferably during the second year) PhD
rurmer mormation	candidates shall spend a minimum six-months period of study and research at a selected firm
	Referente del curriculum/Curriculum coordinator: Prof. Mitia Gialuz (mitia gialuz@unige.it)
	Referente amministrativo / Curriculum secretary: Dott.ssa Maria Stefania Lavezzo
	(maria.stefania.lavezzo@unige.it)

Course in: ECONOMICS AND POLITICAL ECONOMY (CODE 8912)

Coordinator: Anna Bottasso		
Department of Economics		
Places: 1 – Grants: 1	Places: 1–Grants: 1	
The annual gross amount of	the grant, including social security expenses to be paid by the recipient, is \in 15.343,28.	
A research period in compan	y (minimum 6 months) in Italy or abroad is expected	
Comparative assessment	QUALIFICATIONS/PUBLICATIONS AND INTERVIEW	
procedure		
Interview	Date, hour and how the interview will be carried out will be posted by 11.11.2021 on the web	
	page https://unige.it/usg/it/dottorati-di-ricerca	
Further information on	1. Under penalty of exclusion, candidates must submit:	
how to present	a) a CV;	
qualifications/publications	b) a research project on the theme of research specified below at the "Research Theme" point.	
	2. From the CV and other documents enclosed the following data should result:	
	a) University degree and the final note or qualification thereof;	
	b) any other post-lauream degree (like, e.g., Master degrees);	
	c) publications concerning the research topic of the present Curriculum, if any;	
	d) research experiences and research and educational activities, if any.	
	3. The research project must have a maximum length of 10000 characters, spaces and essential	
	bibliographical references included, under penalty of exclusion. The research project must	
	pertain to the research theme singled out in the box"Research Theme" below, under penalty of	
	exclusion. The research project must contain, under penalty of exclusion, a clear statement of	
	the topic, goals, and stages of the research activity, along with essential bibliographical	
	references. The research project can be written, on the candidate's choice, in Italian or English.	
	4. Candidates may enclose publications and any other document they consider relevant to the	
	purpose of the present competition.	
Exam Syllabus	Discussion of titles and research project submitted.	
Research Theme	"Assessment and reporting of climate objectives: environmental reporting of ecosystem	
	services for the energy, agri-food and natural areas". Building a concerted and continuous	
	measure of changes in the state of the environment and its relationship with the economy and	
	human activities is essential to ensure the integration of biodiversity and ecosystems into	
	decision-making processes. The relevance of these tools for a successful transition towards	
	climate goals is underlined by many European and international initiatives. Moreover, the	
	diffusion and severity of the COVID-19 pandemic have dramatically highlighted the urgency	
	of having data that is still missing on various relevant aspects and at the right geographical	
	scale. The GREEN research project concerns the reframing of the theoretical structure of the	
	Environment-Economic-Ecosystem Accounting System (SEEA EA) recently adopted by the	
	United Nations Statistical Commission to support the monitoring of the SDGs and for the	
	implementation of the European Green Deal in order to adapt it to strategic sectors for the	
	purposes of climate objectives. these are in particular the agricultural sector, the energy sector,	
	and the system of national parks. The project resumes in some way the recommendations of the	
	UN to deepen the application of this type of accounting which is still very limited at the	
	disaggregated level of the individual regions and/or to sectors relevant to the GREEN transition	
	path.	
Information on references	Candidates must provide up to three letters of reference (minimum one) supporting them	
	application. The letters must be written by Academics or Experts in the research topics of the	
	Curriculum. They will send their letter of reference, within the deadline established in the Call,	
	directly to the following address: <u>dottoratodiec@economia.unige.it</u> .	
	In their application form candidates must point out the name, the qualification, and the	
	workplace of the persons that have written reference letters for them.	
Foreign Longuages	En aliah	
Foreign Languages	Eligiisii During the three years of the Dectoral Program (and preferably during the second year) PhD	
	condidates shall spend a minimum six months paried of study and research at a selected firm	
	For further information:	
	Prof Anna Dottaggo (anna hottaggo () aconomy unice it)	
	Prof. Barbara Cavalletti (barbara cavalletti@unige.it)	
	Secretariat Frika Deodato (dottoratodiec @ illuminazione unige it)	

Curriculum: PHYSICS (CODE 8913)

Coordinator: Riccardo Ferrando		
Department of Physics		
Places: 4 Grants: 4		
The annual gross amount of	the grant, including social security expenses to be paid by the recipient, is \notin 15.343,28.	
A research period in company	(minimum 6 months) in Italy or abroad is expected	
Comparative assessment	QUALIFICATIONS/PUBLICATIONS AND INTERVIEW	
procedure		
Interview	Date, hour and how the interview will be carried out will be posted by 11.11.2021 on	
	the web page https://unige.it/usg/it/dottorati-di-ricerca	
	If a candidate has been admitted to the interview but cannot reach in time the place of	
	the exam, the option of a video conferencing interview is available. To request this	
	option it is necessary to send an email to <u>phd@fisica.unige.it</u> .	
	The details about the connection will be in the answer to the email request.	
Further information on	Each candidate must submit a description of the research project he/she intends to	
how to present	carry out during the three years of the PhD course. The project must be written in	
qualifications/publications	English. A maximum length of 6000 characters including spaces is allowed.	
Exam Syllabus	- Discussion about the qualification of the candidate.	
	- Discussion of the Master's thesis.	
	- Presentation and discussion of the proposed research project.	
	- Interview on basic physics topics (general physics, modern physics).	
	- Verification of knowledge of the English language.	
Research Themes	- I scholarship on the topic: Measurement and modeling of the relationship between	
	bioaerosol diffusion, air quality and weather-climatic conditions	
	- 1 scholarship on the topic: Solar chimney for CO_2 sequestration	
	- 1 scholarship on the topic: Superconducting detectors technologies for very high	
	1 ash alarshin an the tonio. Study of law an analysis.	
	- 1 scholarship on the topic. Study of low energy impact curved upotal magnets for	
Information on references	Condidates must choose up to three reference to support their application. These	
Information on references	contacts must be university professors or experts in the field. It is preferable that at	
	least one contact belongs to the University of Genoa or to the affiliated research bodies	
	(CNR/INFN/IIT) The reference letters	
	nreferably written in English within the deadline of the call The letters must be	
	addressed to the attention of the course coordinator Prof Riccardo Ferrando to the e-	
	mail address: phd@fisica.unige.it. The subject of the email must be: PHD	
	REFERENCE LETTER – PHYSICS.	
Foreign Languages	Excellent knowledge of both spoken and written English.	
	A very basic knowledge of Italian is desirable.	

Course in: CLINICAL AND EXPERIMENTAL IMMUNOLOGY (CODE 8914)

Coordinator: Simona Sivori	
Department of Experimental Medicine (DIMES)	
Places: 2–Grants: 2	
The annual gross amount of	the grant, including social security expenses to be paid by the recipient, is \notin 15.343,28.
A research period in compan	y (minimum 6 months) in Italy or abroad is expected
Comparative assesment	QUALIFICATIONS/PUBLICATIONS AND INTERVIEW
procedure	
Interview	Date, hour and how the interview will be carried out will be posted by 11.11.2021 on the web
	page https://unige.it/usg/it/dottorati-di-ricerca
	Details will be provided to applicants via email following the closing of the registrations. To
	this end, the candidate must have a reliable internet connection, in order to allow the interview
Further information on	to take place.
how to present	the ndf file of their Bachelor's and Master's degree and/or equivalents (BS Master)
augustications/nublications	- a project proposal related to one of the two research themes offered
quantications/ publications	- the <i>curriculum vitae et studiorum</i> including all the technical scientific studies/activities
	already done and pertinent to the doctoral program
	- list and pdf files of publications
	- certifications relating to periods spent in research laboratories
	- recommendation letters (maximum 3) from university professors or recognized experts in the
	field supporting the candidate.
Exam Syllabus	Presentation and discussion of the project proposal submitted, evaluation of the candidate's
_	preparation on basic and clinical immunology topics. Evaluation of English language
	knowledge by reading, translating and understanding part of a scientific article.
Research Themes	The following research themes are proposed:
	1. Green theme: New challenges of biomedical research aim to consolidate and refine
	previously unthinkable objectives, deriving from the most recent technological advances,
	such as, for example, precision medicine, which is based on the considerable progress
	achieved also in the field of basic and applied immunology, and on the development of
	nightly specific biological drugs for cellular and molecular targets. Accelerating the
	development and large-scale production of these drugs, thus reducing their marketing
	development of 2D call models that can reproduce the human nethological condition in a
	very likely way allow to study the stroma-tumor interactions and the characteristics of
	tumor cells and also represent an alternative even more effective and more rapid to animal
	experimentation is of considerable importance to help fight against the oncological
	diseases also reducing the suffering caused by them. This research theme aims at the
	development of 3D cellular models in biorectors for the study of new immunotherapeutic
	drugs.
	2. Innovation theme: The spread of antibiotic resistance among bacteria responsible for
	common respiratory infections has prompted calls for an improvement or a reduction of
	antibiotic usage. The use of antibiotics was significantly reduced thanks to the treatment
	with polyvalent mechanical bacterial lysate (PMBL), representing a valid immunization
	approach in fighting the spread of antibiotic resistance. Thanks to its administration route
	(sublingual), PMBL treatment can favor the activation of mucosal immune-surveillance,
	an important first line of defense. This research theme aims to improve the knowledge of
	the mechanisms of action of bacterial lysates of other molecules of microbial origin with
L.C	immunoregulatory activity.
Information on references	The Candidates must choose not more than three referees to endorse their candidature. The
	recommendation letters (specifying their name, role and affiliation), within the deadline of the
	public notice to the Coordinator of the Doctoral Course Prof Simona Sivori at the following
	address: dottorato immunologia@unige it
	The name, status and current position of the referees chosen by the candidate must be stated in
	the application.
Foreign Languages	English
Further Information	Doctoral secretariat: Dr. Eva Baraldi - dottorato.immunologia@unige.it

Curriculum: COMPUTER SCIENCE (CODE 8915)

Coordinator: Giorgio Delzanno			
Department of Information Technology, Bioengineering, Robotics and Systems Engineering–DIBRIS			
Places: 2 - Grants: 2	Places: 2 - Grants: 2		
The annual gross amount of the grant, including social security expenses to be paid by the recipient, is \notin 15.343,28.			
A research period in company (minimum 6 months) in Italy or abroad is expected			
Comparative	QUALIFICATIONS/PUBLICATIONS AND INTERVIEW		
assesment procedure			
Interview	Date, hour and how the interview will be carried out will be posted by 11.11.2021 on the web		
	page https://unige.it/usg/it/dottorati-di-ricerca		
Further information	Instructions and guidelines to prepare a research project are available at the URL:		
on how to present	http://phd.dibris.unige.it/csse/index.php/admission-procedure		
qualifications/publicati			
ons			
Exam Syllabus	The comparative procedure consists of		
	- an assessment of the candidate qualifications		
	- an interview to verify background and knowledge of the candidate as well as motivations, goals		
	and relevance to the PON REACT-EU "Green" themes of the research proposal submitted with		
	the application.		
Research Themes	The research projects of interest concern Action IV.5 Doctorate Programs on Green themes of the		
	new Axis IV of the PON Research and Innovation 2014-2020 "Education and research for		
	recovery - REACT-EU" and, more specifically, the projects and the corresponding industrial		
	collaborations indicated at the URL: http://phd.dibris.unige.it/csse/index.php/admission-		
	procedure/open-positions.		
Information on	Candidates must select between one and three external references (academic researchers or		
references	experts in the research area of the research proposal).		
	Candidates must also indicate their names, qualifications, and affiliations in the application form		
	Furthermore, reference persons are required to send a recommendation letter for the candidate to		
	the email: phd.compsci@dibris.unige.it before the deadline of the application.		
	A template for the reference letter is available at the URL:		
	http://phd.dibris.unige.it/csse/index.php/admission-procedure/reference-letter-template		
Foreign Languages	English		

Curriculum: SYSTEMS ENGINEERING (CODE 8916)

Coordinator: Giorgio Delzanno		
Department of Information Technology, Bioengineering, Robotics and Systems Engineering–DIBRIS		
Places: 2 - Grants: 2		
The annual gross amou	int of the grant, including social security expenses to be paid by the recipient, is \notin 15.343,28.	
A research period in company (minimum 6 months) in Italy or abroad is expected		
Comparative	QUALIFICATIONS/PUBLICATIONS AND INTERVIEW	
assesment procedure		
Interview	Date, hour and how the interview will be carried out will be posted by 11.11.2021 on the web page	
	https://unige.it/usg/it/dottorati-di-ricerca	
Further information	Instructions and guidelines to prepare a research project are available at the URL:	
on how to present	http://phd.dibris.unige.it/csse/index.php/admission-procedure	
qualifications/public		
ations		
Exam Syllabus	The comparative procedure consists of	
	- an assessment of the candidate qualifications	
	- an interview to verify background and knowledge of the candidate as well as motivations, goals,	
	the application	
Research Thomas	The research projects of interest concern Action IV 5 Doctorate Programs on Green themes of the	
Research Themes	new A vis IV of the PON Research and Innovation 2014-2020 "Education and research for recovery	
	- REACT-FU" and more specifically the projects and the corresponding industrial collaborations	
	indicated at the URL: http://phd.dibris.unige.it/csse/index.php/admission-procedure/open-positions.	
Information on	Candidates must select between one and three external references (academic researchers or experts	
references	in the research area of the research proposal).	
	Candidates must also indicate their names, qualifications, and affiliations in the application form.	
	Furthermore, reference persons are required to send a recommendation letter for the candidate to	
	the email: phd.syseng@dibris.unige.it before the deadline of the application.	
	A template for the reference letter is available at the URL:	
	http://phd.dibris.unige.it/csse/index.php/admission-procedure/reference-letter-template	
Foreign Languages	English	

Course in: ENGINEERING OF MODELS, MACHINES AND SYSTEMS FOR ENERGY, ENVIRONMENT AND TRANSPORT

Curriculum: MACHINES AND SYSTEMS FOR ENERGY, ENVIRONMENT AND PROPULSION (CODE 8917)

Coordinator: Roberto Cianci	
Department of Mechanical, Management, Energy and Transportation Engineering - DIME	
Places: 1-Grants: 1	
The annual gross amount of the grant, including social security expenses to be paid by the recipient, is \notin 15.343,28.	
A research period in compan	y (minimum 6 months) in Italy or abroad is expected
Comparative assessment	QUALIFICATIONS/PUBLICATIONS
procedure	
Further information on	CV, educational qualifications, scientific publications
how to present	
qualifications/publications	
Research Themes	Thermo-mechanical energy storage through innovative energy cycles
Information on references	In recent years, large installations of non-programmable renewable power generators have contributed to reduce emissions from fossil sources at the technical cost of reducing stability of electrical grids. In such a context, it is essential to investigate innovative energy storage systems at utility scale to maintain the high quality level of current electrical infrastructure and to guarantee spinning-reserve capability, thus ensuring grid stability. Closed-loop Brayton-type cycles based on rotating machinery with sensible high temperature thermal storage could be a solution to achieve such a goal, according to the power-to-heat-to-power paradigm. In such a framework, this PhD project has a twofold objective: (i) to assess and optimise the techno-economic features of innovative energy storage cycles employing CO ₂ , H ₂ O or organic fluids as working media, including off-design performance and the impact of transient operations; (ii) theoretical and experimental analysis of innovative solutions for high temperature (e.g. >400°C) sensible heat thermal storage. The envisioned systems will be sized around 10 MWe, both during charging as well as discharging phases, comparing their overall Round Trip Efficiency (RTE) and economic characteristics, such as Levelized Cost of Electricity, in typical industrial market scenarios.
Information on references	Maximum three letters of reference
Foreign Languages	
Further Information	Sponsor company:
	Nuovo Pignone recipiogie S.r.i.
	a Baker & Hugnes Company Via Falica Mattanasi 2, 50127 Firanza (Itaki)
	via Fence Matteucci, 2, 50127 Firenze (Italy)

Course in: ENGINEERING OF MODELS, MACHINES AND SYSTEMS FOR ENERGY, ENVIRONMENT AND TRANSPORT

Department of Mechanical, Energetics, Management and TransportEngineering (DIME) Places: 2 - Grants: 2 The annual gross amount of the grant, including social security expenses to be paid by the recipient, is €15.343,28. A research period in company (minimum 6 months) in Italy or abroadis expected Comparative assessment procedure QUALIFICATIONS/PUBLICATIONS AND INTERVIEW procedure Interview Date, hour and how the interview will be carried out will be posted by 11.11.2021 on the web page https://unige.it/usg/it/dottorati-di-ricerca The interview will take place at the Department of Mechanical, Energetics, Management and Transport Engineering (DIME), Via All'Opera Pia 15-1045 Genova. Upon a motivated request, the interview may also take place electronically (Skype video conference) by geting in touch in time with Prof. Patrizia Bagnerini (patrizia.bagnerini@unige.it) Further information on how to present qualifications/publicatios The interview will consist of a discussion of the research project and the titles presented. Research Themes The interview will consist of a discussion of the research project and the titles presented. Research Themes The research topics concerns: 1. applications in space and will be in collaboration with Space V, an innovative statup that was founded with the aim of designing solutions for situations of scarety of resources - water, energy, volume - as encountered in space missions, but which may also have implications on Earth. In particular, the research concerns the study and development of a space adaptive greenhouse that can make optimal use of two of the most linitited resources in space, the volume and energ	Coordinator: Roberto Cianci		
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plans to study and deepen the potential of simulations and Digital Twinin aimed at developing new applications by integrating them with the flow of data coming from connected IoT systems and possibly powered by innovative energy sources (e.g. energy harvesting) that implement an integrated technology and highly innovative to support industrial automation and to support operators in the industrial sectors with a particular focus on the iron and steel industry and the process and service industry.Information on referencesCandidates must choose not less than one and not more than three referees to support the application. These referents must be university professors or experts in the subject. It will be up to the reference letters, within the deadline of the call, to Prof. Patrizia		construction of Digital Twins connected with artificial intelligence systems. The research	
Information on referencesCandidates must choose not less than one and not more than three refereness to support the application. These referents must be university professors or experts in the subject. It will be up to the reference letters, within the deadline of the call, to Prof. Patrizia		plans to study and deepen the potential of simulations and Digital Twinin aimed at	
connected IoT systems and possibly powered by innovative energy sources (e.g. energy harvesting) that implement an integrated technology and highly innovative to support industrial automation and to support operators in the industrial sectors with a particular focus on the iron and steel industry and the process and service industry.Information on referencesCandidates must choose not less than one and not more than three referees to support the application. These referents must be university professors or experts in the subject. It will be up to the reference letters, within the deadline of the call, to Prof. Patrizia		developing new applications by integrating them with the flow of data coming from	
harvesting) that implement an integrated technology and highly innovative to support industrial automation and to support operators in the industrial sectors with a particular focus on the iron and steel industry and the process and service industry.Information on referencesCandidates must choose not less than one and not more than three referees to support the application. These referents must be university professors or experts in the subject. It will be up to the referents to send the reference letters, within the deadline of the call, to Prof. Patrizia		connected IoT systems and possibly powered by innovative energy sources (e.g. energy	
industrial automation and to support operators in the industrial sectors with a particular focus on the iron and steel industry and the process and service industry.Information on referencesCandidates must choose not less than one and not more than three referees to support the application. These referents must be university professors or experts in the subject. It will be up to the referents to send the reference letters, within the deadline of the call, to Prof. Patrizia		harvesting) that implement an integrated technology and highly innovative to support	
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application. These referents must be university professors or experts in the subject. It will be up to the referents to send the reference letters, within the deadline of the call, to Prof. Patrizia	Information on references	Candidates must choose not less than one and not more than three referees to support the	
up to the referents to send the reference letters, within the deadline of the call, to Prof. Patrizia		application. These referents must be university professors or experts in the subject. It will be	
		up to the referents to send the reference letters, within the deadline of the call, to Prof. Patrizia	
Bagnerini (<u>patrizia.bagnerini@unige.it</u>) and/or Prof. Roberto Revetria		Bagnerini (<u>patrizia.bagnerini@unige.it</u>) and/or Prof. Roberto Revetria	
(roberto.revetria@unige.it). In the application for admission, candidates must indicate the		(roberto.revetria@unige.it). In the application for admission, candidates must indicate the	
name, qualification and place of employment of the contact persons they have chosen.		name, qualification and place of employment of the contact persons they have chosen.	
Foreign Languages English	Foreign Languages	English	
Further Information For further information about the research topic it is possible to contact Prof. Patrizia Bagnerini	Further Information	For further information about the research topic it is possible to contact Prof. Patrizia Bagnerini	
(<u>patrizia.bagnerini@unige.it</u>) and/or Prof. Roberto Revetria (roberto.revetria@unige.it).		(<u>patrizia.bagnerini@unige.it</u>) and/or Prof. Roberto Revetria (roberto.revetria@unige.it).	

Curriculum: MATHEMATICAL ENGINEERING AND SIMULATION (CODE 8918)

Curriculum: TECHNICAL PHYSICS (CODE 8919)

Coordinator: Giovanni Berselli	
Department of Mechanical Energetics Management and Transport Engineering (DIME)	
Department of Prechamea, Energences, Pranagement and Transporting meeting (DIPLE)	
Flaces : 1 - Grants : 1 The ensuel gross empirical the grant in the disc social security empiricates to be weighted the restricted in C15 242 20	
A research period in company	w (minimum 6 months) in Italy or abroad is expected
Comparative assessment	OUALIEICATIONS/DUBLICATIONS AND INTEDVIEW
procedure	QUALITICATIONS/I UDLICATIONS AND INTERVIEW
Interview	Date hour and how the interview will be carried out will be posted by 11 11 2021 on the
Inter view	web page https://unige.it/usg/it/dottorati_di_ricerca
Further information on	Further information on Ouslifications/publications must contain a detailed explanation and
how to procent	the planning of the development of a possible research project concerning one of the
auglifications/publications	syllabuses of the field Technical Physics (FT 1 FT 2) in order to evaluate the candidate's
quantications/publications	ability to organize and carry outres earch
	If admitted to the doctoral course, the candidate will carry out his/her activity within the
	syllabus chosen for his/her project, but not necessarily on the specific activities described
	in the actual project submitted
Evam Syllahus	The interview will focus on the discussion of the project the qualifications presented by the
	candidate and on all the specific themes bound to the Technical Drugics curriculum (FT 1
	and ET 2)
Posoarch Thomas	The FT syllabus Technical Dhysics of the IMEG Doctoral Course resumes the historical
Research memes	acura of the Dectoral Courses in Technical Physics (first year of activation 1002)
	It's objective is to train young researchers canable of developing theoretical experimental
	research in the thermodynamic thermofluid dynamic and transmission of heat sectors: of
	dealing with research in the energy sector by means of a suitable methodological approach
	to the thermodynamic is sue: of analysing thermal acoustic and lighting phenomena which
	concur in defining both the conditions of environmental well-being of environmental
	impact and consequent control possibilities
	The FT curriculum develops research within the following fields:
	FT 1 Physics of buildings and environmental control
	- Components heating and air-conditioning plants
	- Physics of buildings and environmental control
	- Lighting techniques and applied acoustics
	- Near Zero Energy Buildings
	The issues are developped according to the traditional approach of Environmental Technical
	Physics.
	FT.2 Energetics, Applied Thermofluid dynamics and refrigeration
	- Thermodynamic analysis of energy systems
	- Energy sources, vectors and rational consumption of energy
	- Renewable Energies
	- Environmental impact of energy systems and greenhouse gas emission reduction
	- refrigeration and heat pump systems
	- Single and multiphase thermofluid dynamics. Thermophysical properties of materials.
	Techniques to increase the efficiency of the energy processes and thermofluid dynamic
	exchange mechanisms.
	The thematics are developped according to the traditional approach of Industrial Technical
	Physics.
Information on references	Candidates must choose not less than one and not more than three referees to support their
	candidature. These referees must be university professors or experts in the subject and it
	will be their concern to send reference letters, within the deadline of the public notice, to
	the Coordinator Prof. Giovanni Berselli at the following address giovanni.berselli@unige.it
	and to the contact persons for the curriculum FT, Prof. Corrado Schenone
	(corrado.schenone@unige.it) and Prof. Francesco Devia, (francesco.devia@unige.it).
	The name, status and service place of the referees chosen by the candidates must be stated
L	in their applications.
Foreign Languages	English
Further Information	Coordinator of the PhD IMEG course:
	Prot. Giovanni Berselli
	DIME/MEC via all'Opera Pia 15/A 16145 Genova (+39) 0103352839
	giovanni.berselli@unige
	Reference Person for FT Curriculum:
	Prof. Corrado Schenone

Dime Dept. DIME via all'Opera Pia 15/A 16145 Genova (+39) 0103352577
corrado.schenone@unige.it
Contact person for the FT curriculum:
Prof. Francesco Devia
DIME via all'Opera Pia 15/A 16145 Genova (+39) 0103352309
francesco.devia@unige.it

Curriculum: ROBOTICS AND MECHATRONICS (CODE 8920)

Coordinator: Giovanni Berselli		
Department of Mechanical, Energetics, Management and Transport Engineering – DIME		
Places: 1-Grants: 1		
The annual gross amount of the grant, including social security expenses to be paid by the recipient, is € 15.343,28.		
A research period in compan	y (minimum 6 months) in Italy or abroad is expected	
Comparative assessment	QUALIFICATIONS/PUBLICATIONS AND INTERVIEW	
procedure		
Interview	Date, hour and how the interview will be carried out will be posted by 11.11.2021 on the web	
	page https://unige.it/usg/it/dottorati-di-ricerca	
Further information on	The qualifications/publications must contain a detailed explanation and the development plan	
how to present	of how to present a possible research project, quoting the Robotics and Mechatronics (RM)	
qualifications/publications	syllabus, and the field qualifications/pubblications it refers to, in order to evaluate the	
	candidate's ability to organize and carry out research.	
	If admitted to the doctoral course, the candidate will generally carry out his/her activity within	
	the syllabus chosen for his/her project, but not necessarily on the specific activities described	
	and planned in the actual project.	
Exam Syllabus	The interview will focus on the discussion of the project, the qualifications presented by the	
	candidate and on all the specific themes bound to the Robotics and Mechatronics curriculum	
	(RM).	
Research Themes	The Robotics and Mechatronics (RM) syllabus focuses on research themes typical of the	
	Macrosectors it refers to. In particular the research themes suggested concern the development	
	of robot and manipulation, switch systems, home automation (domotics), remote manipulation,	
	modular robots and robots for safety, intelligent mini-vehicles, assembly systems, fluid	
	automation; models and simulation of systems for robotics and mechatronics, man-machine	
	interaction, collaborative robotics, cooperative robotics, robot programming, integration of	
	robotic systems, mechatronics for the automatic machine sectors and for the mechanical and	
	marine mechanical industry.	
Information on references	Candidates must choose not less than one and not more than three referees to support their	
	candidature. These referees must be university professors or experts in the subject and it will	
	be their concern to send reference letters, within the deadline of the public notice, to the	
	Coordinator Prof. Giovanni Berselli at the following address <u>giovanni berselli@unige.it</u> and to	
	the contact person for the curriculum RM, Prof. Matteo Zoppi, at <u>matteo.zoppi@umge.it</u> .	
	I ne name, status and service place of the referees chosen by the candidates must be stated in	
Fancian Longuages	En aliah	
Foreign Languages	English	
Further Information	Coordinator of the PhD IMFG course:	
	Prof. Giovanni Berselli	
	DIME/MEC	
	via all'Opera Pia 15/A 16145 Genova	
	(+39) 0103352839	
	giovanni berselli@unige.it	
	Contact person for the RM curriculum:	
	Prof. Matteo Zoppi	
	DIME/MEC	
	via all'Opera Pia 15/A 16145 Genova	
	(+39) 0103352964	
	matteo.zoppi@unige.it	

Curriculum: MATHEMATICAL METHODS FOR DATA ANALYSIS (CODE 8921)

Coordinator: Stefano Vigni		
Department of Mathematics	Department of Mathematics (DIMA)	
Places: 4-Grants: 4		
The annual gross amount of	the grant, including social security expenses to be paid by the recipient, is \notin 15.343,28.	
A research period in compan	y (minimum 6 months) in Italy or abroad is expected	
Comparative assessment	OUALIFICATIONS/PUBLICATIONS AND INTERVIEW	
procedure		
Date, time and place of	Date hour and how the interview will be carried out will be posted by 11 11 2021 on the web	
interview	nage https://unige.it/usg/it/dottorati-di-ricerca	
Further information on	Besides the documentation listed in art 3 of the public notice candidates must present:	
how to present	- if available their 5 year degree thesis (to be uploaded online)	
qualifications/publications	Furthermore	
quantications, passications	- in their curriculum their three year degree and 5 year degree marks should be indicated: - a	
	research project (2 pages max) which describes the research theme they intend to work on	
	during the Doctoral Course	
Fyam syllahus	The comparative assessment procedure consists in the assessment of qualifications/publications	
Exam synabus	and in interview on the research project presented by the candidate	
B osoprah thomas	Theme n 1 (in partnership with 3Brain): Bio digital twin for a sustainable	
Research themes	neuropharmacological drug development	
	For details see https://mida.dima.uniga.it/phd.proposal/	
	ror details, see <u>inteps://mida.dnna.dnnge.n/pid-proposal</u>	
	Theme n 2 (in northership with Fonderione CIMA), Supervised learning for MOS based	
	rediction systems	
	For details, see https://mide.dime.unice.it/phd.prop.co.l/	
	For details, see <u>https://mida.dima.umge.it/pid-proposal/</u>	
	Themen 2 (in partnership with AITEO) Machine learning for space weather	
	For details, see https://mide.dime.unice.it/phd.prop.osol/	
	ror details, see <u>inteps://mida.duma.umge.n/pid-proposal/</u>	
	Theme n 1 (in northership with Nevertie): Artificial Intelligence and hieratetictics for an	
	inclusive enpresente elinical trials in Multiple Selerosis	
	For details, see https://mida.dima.unige.it/phd.proposal/	
	Tor details, see <u>inteps://mida.duma.umge.u/pid-proposal/</u>	
	Theme n 5 (in partnership with MindFarth): Understanding visual scenes for urban	
	sustainability	
	For details see https://mida.dima.unige.it/nhd.proposal/	
	1 of details, see <u>https://mdd.dimd.dimge.ic/pid-proposar</u>	
	Themen 6 (in partnership with BEES Srl): Bayesian approaches to uncertainty quantification	
	for air quality monitoring	
	For details, see https://www.dima.unige.it/~sorrentino/News.html	
	Theme n. 7 (in partnership with PM TEN Srl): Machine learning methods for air quality	
	monitoring with low-cost sensor networks.	
	For details, see https://www.dima.unige.it/~sorrentino/News.html	
	Theme n. 8 (in partnership with ALA Srl): Reconstruction of atmospheric particulate from lidar	
	data.	
	For details, see https://www.dima.unige.it/~sorrentino/News.html	
	Theme n. 9 (in partnership with Kellify): Deep learning for agricultural land use inventories	
	from high resolution aerial and space images.	
	For details, see https://www.dima.unige.it/~riccomag/	
	Theme n. 10 (in partnership with algoWatt): Dynamic programming with learning for the	
	optimal management of energy storage systems.	
	For details, see <u>https://imati.cnr.it/bandi.htm</u>	
	Theme n. 11 (in partnership with Gruppo SIGLA): Prediction, simulation and optimization of	
	vehicular traffic flows for the reduction of traffic impacts on the environment and the	
	promotion of sustainable development of urban areas.	
	For details, see <u>https://imati.cnr.it/bandi.htm</u>	

Information on references	Candidates must choose not less than one and not more than three referees to support their
	application. These referees must be university professors or experts in the subject and it will be
	their concern to send reference letters, within the deadline of the public notice, to the
	Coordinator of the Doctoral Course at the following address:
	Prof. Stefano Vigni
	Dipartimento di Matematica, Università di Genova
	via Dodecaneso 35, 16146 Genova
	Italy
	or, alternatively, to the email address stefano.vigni@unige.it
	The name, status and service place of the referees chosen by the candidates must be stated in
	their applications.
Foreignlanguages	English
Further information	Prof. Stefano Vigni
	Dipartimento di Matematica, Università di Genova
	via Dodecaneso 35, 16146 Genova GE Italy
	E-mail: stefano.vigni@unige.it

Curriculum: CLINICAL AND EXPERIMENTAL NEUROS CIENCES (CODE 8922)

Coordinator: Angelo Sche	Coordinator: Angelo Schenone		
Department of neurology, rehabilitation, ophthalmology, genetics, maternal and child health (DINOGMI)			
Places: 2 Grants: 2			
The annual gross amount of	the grant, including social security expenses to be paid by the recipient, is $\in 15.343.28$.		
A research period in compan	v (minimum 6 months) in Italy or abroad is expected		
Comparative assessment	OUALIFICATIONSAND INTERVIEW		
procedure			
Înterview	Date, hour and how the interview will be carried out will be posted by 11.11.2021 on		
	the web page https://unige.it/usg/it/dottorati-di-ricerca		
Further information on	Further information on how to present qualifications/pubblications		
how to present	(traduzione in inglese di Informazioni aggiuntive sulle modalità di presentazione di		
qualifications/publications	titoli)		
	In the CV evaluation, the following items will be considered (according to relative		
	importance):		
	1) Research project		
	2) Previous research work in the neuroscience field		
	3) Graduation score and degree thesis		
	4) Other academic qualifications		
	5) Publications in scientific journals with IF		
	6) Recommendation letters		
	7) Prizes		
Exam Syllabus	Description and defense of the research project proposed by the candidate		
Research Themes	This call is linked to the program "FSE REACT-EU Dottorati su tematiche		
	dell'innovazione e green: nuove risorse dal PON Ricerca e Innovazione" (D.M. August		
	10, 2021 n.1061). Inside this framework, Phd cadidates are required to attend for six		
	months a private company that undertakes enterprise activities. Please note that the		
	research projects presented by the candidates (and thus their PhD activities) need to be		
	focused on one of the research themes below, which have been drafted based on the		
	available industrial partenerships:		
	a. "The Use of Innovative Technologies for the Assessment and Rehabilitation of		
	Hand and Bite Motor Control" (contact information: prof. Marco Testa,		
	marco.testa@unige.it)		
	b. "Development of a Virtual Coaching System for the Measurement and Evaluation		
	of the Sit-to-Stand Movement in Older Adults.) (contact information: prof. Marco		
	Testa, marco.testa@unige.it)		
	c. "The use of Wearable Sensors to Promote Physical Activities in the Smart City."		
	(contact information: prof. Marco Testa, marco.testa@unige.it)		
	d. "The neuroglass project: a sensorized approach to telemonitoring of eye, head and		
	body movements in neurodegenerative diseases and normotensive hydrocephalus"		
	(contact information: prof. Angelo Schenone, aschenone@neurologia.unige.it, dr.		
	Matteo Pardini, matteo.pardini@unige.it)		
	e. New Drugs derived from creatine and innovative approaches to improve creatine		
	and creatine-derivate delivery to the central nervous system (contact information:		
	prof. Maurizio Balestrino, mbalestrino@neurologia.unige.it)		
Information on references	Candidates should provide at least one and no more than 3 recommendation letters in		
	support of their application. Letters should be provided by University Professors or		
	Experts in Neuroscience. Letters should be sent to the coordinator of the "Clinical and		
	experimental Neuroscience curriculum":		
	Prof. Tullio Florio		
	Dipartimento di Medicina Internae specialità mediche (DIMI)		
	Viale Benedetto XV, 2 16132 Genova		
	or, alternatively, to the following e-mail address: tullio.florio@unige.it;		
	or to Dr. Maria Paola Fenu: neurologia@neurologia.unige.it		
	Name and address of the scientists requested to send a recommendation letter should be		
	clearly indicated in the admission request.		
Foreign Languages	English		
Further Information	Further information can be requested to the coordinator of the "Clinical and		
	experimental Neuroscience curriculum":		
	Prot. Tulho Florio (tullio.florio@unige.it)		
	or to Dr. Maria Paola Fenu (neurologia@neurologia.unige.it)		

Curriculum: LOGISTICS AND TRANSPORTATION (CODE 8923)

Coordinator: Claudio Ferrari	
Centro del Mare	
Places: -1 Grants: 1	
The annual gross amount of the grant, including social security expenses to be paid by the recipient, is \notin 15.343,28.	
A research period in company (minimum 6 months) in Italy or abroad is expected	
Comparative assessment	QUALIFICATIONS/PUBLICATIONS AND INTERVIEW
procedure	
Interview	Date, hour and how the interview will be carried out will be posted by 11.11.2021 on the web
	page https://unige.it/usg/it/dottorati-di-ricerca
Further information on	relevant will be bachelor and master degrees thesis, information shall be focused on work
how to present	experience
qualifications/publications	
Exam Syllabus	- interview on candidate's qualification
	 interview on literature references and research topic
	- english reading test
Research Themes	urban green infrastructures, sustainability pillars
Information on references	letters of references are not required
Foreign Languages	english
Further Information	phd candidate will show work experiences in teambuilding

Curriculum: MARINE ECOSYSTEM SCIENCES (CODE 8924)

Coordinator: Claudio Ferrari	
Centro del Mare	
Places: 2 - Grants: 2	
The annual gross amount of the grant, including social security expenses to be paid by the recipient, is € 15.343,28.	
A research period in compan	y (minimum 6 months) in Italy or abroad is expected
Comparative assessment	QUALIFICATIONS/PUBLICATIONS AND INTERVIEW
procedure	
Interview	Date, hour and how the interview will be carried out will be posted by 11.11.2021 on the web
	page https://unige.it/usg/it/dottorati-di-ricerca
	Department of Earth, Environmental and Life Sciences (DISTAV), Palazzo delle Scienze,
	Prof. Vezzulli's Office, 4th floor, Corso Europa 26, Genoa.
	The interview can take place on request also electronically (video conference via SKYPE) by
	contacting the Prof. Luigi Vezzulli at least a week before by e-mail (<u>luigi.vezzulli@unige.it</u>)
Exam Syllabus	The interview will focus on the discussion of the candidate's curriculum and the research project
	with particular reference to the relevance of the proposed activities with the research themes of
	the doctorate, the scientific content, the innovativeness and the feasibility of their realization.
Research Themes	Theme 1: REST-ART: RESToration of Marine Forests on ARTificial Reefs
	Theme 2: Spatial Decision Support System (SDSS) for sustainable development: ecosystem
	services of the coastal marine environment
Information on references	Letters of reference are not required
Foreign Languages	English
Further Information	Contact Prof. Luigi Vezzulli (luigi.vezzulli@unige.it)

Curriculum: NAVAL ARCHITECTURE AND MARINE ENGINEERING - MARINE TECHNOLOGIES (CODE 8925)

Coordinator: Claudio Ferrari	
Centro del Mare	
Places: 2–Grants: 2	
The annual gross amount of	The grant, including social security expenses to be paid by the recipient, is \notin 15.343,28.
A research period in company (minimum 6 months) in Italy or abroad is expected	
Comparative assessment	QUALIFICATIONS/PUBLICATIONS AND INTERVIEW
procedure	
Interview	Date, hour and how the interview will be carried out will be posted by 11.11.2021 on the web
	page https://unige.it/usg/it/dottorati-di-ricerca
	The interview can take place on request also electronically (video conference via MS Teams)
	by contacting Prof. Cesare M. Rizzo at least a week before the interview date by e-mail
	(cesare.rizzo@unige.it)
Further information on	Applicants will:
how to present	1) submit a research project (maximum 10 pages A4 format) regarding one of the proposed
qualifications/publications	research themes, emphasizing the sustainability is sues of the proposal;
	2) an updated CV containing all relevant information for the selection;
	Italian candidates not yet graduated must present the list with a score of the exams taken in the
	master degree.
Exam Syllabus	The interview will focus on the topics of the proposed research project and on related is sues.
Research Themes	1. Novel methods for the fatigue assessment of ships and offshore structures
	2. Development of an intelligent algorithm-based system for sustainable and effective
	fabrication of dissimilar joints
Information on references	Reference letters are not required.
Foreign Languages	English
Further Information	Further details on the PhD topics may be required to Prof. Cesare M. Rizzo by e-mail

Curriculum: ENGINEERING FOR MARINE AND COASTAL ENVIRONMENTS (CODE 8926)

Coordinator: Claudio Ferra	Coordinator: Claudio Ferrari	
Centro del Mare		
Places: 1 – Grants: 1		
The annual gross amount of	the grant, including social security expenses to be paid by the recipient, is \notin 15.343,28.	
A research period in compan	y (minimum 6 months) in Italy or abroad is expected	
Comparative assessment	QUALIFICATIONS/PUBLICATIONS AND INTERVIEW	
procedure		
Interview	Date, hour and how the interview will be carried out will be posted by 11.11.2021 on the web	
	page https://unige.it/usg/it/dottorati-di-ricerca	
	The interview will take place electronically (Teams, Skype or Zoom) by contacting the	
	secretariat of the PhD (dottorato.dicca@unige.it) and Prof. Giovanni Besio	
	(giovanni.besio@unige.it) at least 15 days before the evaluation. To this end, the candidate	
	must have a reliable internet connection, so as to allow the conduct of the test. In case the	
	pandemic situation and the regulatory framework allows it, it will be possible to have the	
	interview in presence.	
Further information on	The curriculum must be completed by a document from the university that is sued the degree	
how to present	(transcript of records) attesting to the courses and grades obtained throughout the candidate s	
quanneations/publications	University education (Bachelor and M.Sc.).	
	The presentation of international language certifications (TOEFL, CPE, CAE, FCE,)	
	attached to the cufficulum s preferential.	
	Candidates not yet in possession, at the deadline of the announcement, of the that anows	
	access to the PhD may submit additional documentation, which they deem more appropriate,	
Evom Syllahus	In order to document their academic career. The interview in English, consists of an in-depth scientific discussion on the research project	
Exam Synabus	on the Curriculum and on the titles presented by the candidate and is also aimed at verifying	
	that the condidate has adequate knowledge to deal profitably with the studies in the chosen	
	curriculum	
Research Themes	"Enhancing resilience against climate change in coastal environments; civil chemical and	
Acsear en memes	environmental en gineering solutions"	
Information on references	Applicants should choose no fewer than one and no more than three referees to support the	
	application.	
	One of the referees must be a faculty member of the curriculum committee	
	(http://dottorato.dicca.unige.it/eng/info/staff/comitatoemaces.html) with whom the research	
	project has been agreed upon.	
	It will be the responsibility of the referees to send the letters of reference, within the deadline	
	of the call, to the secretariat of the PhD dottorato.dicca@unige.it and the coordinator of the	
	curriculum giovanni.besio@unige.it	
	In the application form, candidates must indicate the name, position and place of service of	
	the references they have chosen.	
	Letters of reference that are not submitted as required will not be considered.	
Foreign Languages	English	
Further Information	http://dottorato.dicca.unige.it/eng/emaces/	
	Giovanni Besio giovanni.besio@unige.it	

Curriculum: FLUID MACHINES AND ENERGY SYSTEMS FOR MARITIME APPLICATIONS (CODE 8927)

Coordinator: Claudio Ferrari	
Centro del Mare	
Places: 2–Grants: 2	
The annual gross amount of	the grant, including social security expenses to be paid by the recipient, is \notin 15.343,28.
A research period in compan	y (minimum 6 months) in Italy or abroad is expected
Comparative assessment	QUALIFICATIONS/PUBLICATIONS
procedure	
Further information on	CV, educational qualifications, scientific publications
how to present	
qualifications/publications	
Research Themes	Feasibility study and configurations assessment of offshore hybrid vessels toward zero
	emission
	Abstract
	Electric and hybrid ship powering systems have a potential applicability in offshore vessels
	market, but until recently utilization of alternative fuels have been limited by the availability
	of compatible ICE or FC the batteries have been weighty, with limited capacity.
	As part of the global effort to turn green the overall mobility, several technologies have been
	implemented paving the way to a reduced carbon footprint also in offshore vessel market.
	Scope of the present doctorate is the exploitation of available technologies, strategies and
	overall vessel configurations to support the selection of the most suitable options for offshore
	vessels, with the identification of main design parameters and regulatory limits for auxiliary
	systems supporting the main powering systems, i.e. power generation and propulsion. The
	candidate will carry out both on design and off design new system performance, while in the
	second part of the research the investigation of green system dynamic performance and
	integration with apt control systems will be performed and validated through a cyber physical
	approach in collaborations with VARD engineers.
	Optimization and design of an innovative hydrogen system for marine applications
	Abstract: The aim of this work is the assessment of the hydrogen solution most suitable for
	naval applications and the definition of the role of hydrogen as an alternative fuel for
	navigation.
	The Phd plan of search is the continuation of the program of activity of search (from the
	industrial and academic side) that has carried to the construction of a joint laboratory between
	Fincantieri and the department DIME of the University of Genoa, the laboratory HI-SEA,
	dedicated to the study of Fuel Cell systems for marine applications.
	Based on past research and with the support of the sponsoring company, the candidate will
	explore issues related to the optimization and development of a control and diagnostic system
	that will make these technologies efficient and perfectly integrated with on -board systems
Information on references	letters of reference are not required
Foreign Languages	English
Further Information	Sponsor companies:
	VARD GROUP AS
	P.O. Box 76
	NO-6001 Alesund
	Norway
	BLUENERGY REVOLUTION SOCIETA COOPERATIVA,
	benova (GE) viale Nazario Sauro 5/2A, (CAP 10145) TEL 0104558004
	bluenergyrevolution@pec.it <u>www.bluenergyrevolution.com</u>
	Partita IVA: 02346250992

Course in: SCIENCE AND TECHNOLOGY OF CHEMISTRY AND MATERIALS

Curriculum: SCIENCE AND TECHNOLOGY OF MATERIALS (CODE 8928)

Coordinatore: Renata Riva		
Department of Chemistry and	d Industrial Chemistry (DCCI)	
Places: 3 – Grants: 3		
The annual gross amount of t	he grant, including social security expenses to be paid by the recipient, is \in 15.343,28.	
A research period in company	(minimum 6 months) in Italy or abroad is expected	
Comparative assessment	QUALIFICATIONS/PUBLICATIONS AND INTERVIEW	
procedure		
Interview	Date, hour and how the interview will be carried out will be posted by 11.11.2021 on the web	
	page https://unige.u/usg/u/uouorau-ur-neerea	
	The interview may take place electronically (Skype, Teams c.c.) for justification the candidate has to show the original document (the same provided	
	in the annlication).	
Further information on	Evaluable qualifications:	
how to present		
qualifications/publications	1. educational qualifications with marks;	
	2. transcriptor records (list of exams with marks);	
	3. recommendation letters (maximum three);	
	4. research project written in Italian or English;	
	5. culture duration of the state of the stat	
	congress presentations, patients, study or research awards).	
	All candidates have to attach to the application the certificates related to all the academic	
	qualifications, reporting the mark and duration of the study cycles. For students not yet	
	graduated, who are admitted sub condicione, the presentation of the certificate is required with	
	the marks obtained in the individual exams.	
	Foreign applicants must also clearly report the number of years corresponding to each cycle	
	of studies carried out before enrolling in the University.	
	In case of admission to the doctorate, the candidate will agree on the final project with the	
Fyam cyllahus	The candidate will discuss with the Committee the research project he/she has presented. The	
Exam Synabus	Committee will evaluate the research project for its originality, feasibility, methodology,	
	timeline and relevance within the research topics listed in the call. In this way the Committee	
	will be able to evaluate the candidate's attitude to develop a scientific project. During the	
	interview the Committee will ascertain the candidate knowledge of English language.	
Research themes	The <u>research themes</u> of the 3 scholarships have in common the design and optimization of new	
	high-tech materials for various applications, paying attention to the Green Chemistry	
	principles, to the sustainability and to the mitigation of environmental impact of pollutants n	
	industrial and urban realities.	
	Among the possible materials that will be topic of research we can find; a) new fight enciency	
	from agricultural processing materials (i.e. corn and rice); b) new real-time sensors based on	
	nolymer photonic crystals for the fast determination of toxic, carcinogenic and greenhouse	
	volatile organic compounds (VOCs); c) novel magnetorheological electrolytes (MREs) based	
	on ionic liquids, endowed with well recognized eco-friendly properties, to be applied in	
	microfabrication processes.	
Information on	Candidates must provide not less than one and not more than three recommendation letters to	
recommendation letters	support their application. The authors are university professors or experts in the research topics	
	of the PhD course and they must provide the letters within the deadline of the call, exclusively	
	by email to: <u>tabio.canepa@unige.it</u> (subject: PhD_letter).	
	he stated in the application	
Foreign I anguages	English	
Further information	Prof Fabio Canena	
	(+39) 01035356093 fabio.canepa@unige.it	
	Administrative contact person	
	Mrs. Noemi Pretelli	
	(+39) 01035358752 noemi@chimica.unige.it	

Course in: SCIENCE AND TECHNOLOGY OF CHEMISTRY AND MATERIALS

Curriculum: CHEMICAL SCIENCES AND TECNOLOGIES (CODE 8929)

Coordinatore: Renata Riva	
Department of Chemistry and	d Industrial Chemistry (DCCI)
Places: 3 – Grants: 3	
The annual gross amount of t	the grant, including social security expenses to be paid by the recipient, is \notin 15.343,28.
A research period in company	(minimum 6 months) in Italy or abroad is expected
Comparative assessment	QUALIFICATIONS/PUBLICATIONS AND INTERVIEW
procedure	
Interview	Date, hour and how the interview will be carried out will be posted by 11.11.2021 on the web
	page https://unige.it/usg/it/dottorati-di-ricerca
	The interview may take place electronically (Skype, Teams etc.) for justified reasons. For the
	purpose of identification, the candidate has to show the original document (the same provided
	in the application).
Further information on	Evaluable qualifications:
how to present	1. educational qualifications with marks;
quantications/publications	2. transcript of records (list of exams with marks);
	3. recommendation letters (maximum three);
	4. research project written in Italian or English;
	5. curriculum vitae et studiorum;
	6. additional qualifications (postgraduate qualifications, publications in scientific journals,
	congress presentations, patents, study or research awards).
	All candidates have to attach to the application the certificates related to all the academic
	qualifications, reporting the mark and duration of the study cycles. For students not yet
	graduated, who are admitted <i>sub condicione</i> , the presentation of the certificate is required with
	the marks obtained in the individual exams.
	Foreign applicants must also clearly report the number of years corresponding to each cycle
	of studies carried out before enrolling in the University.
	In case of admission to the doctorate, the candidate will agree on the final project with the
	Coordinator of the doctorate.
From adlabas	
Exam sylladus	The candidate will discuss with the Committee the research project he/she has presented. The
	timeline and relevance within the research topics listed in the call. In this way the Committee
	will be able to evaluate the candidate's attitude to develop a scientific project. During the
	interview the Committee will ascertain the candidate knowledge of English language.
Research themes	The research themes of the 3 scholarships have in common the study of new approaches to
	green, sustainable and environmentally friendly chemistry, where the role of the transition
	from linear to circular bioeconomy is of paramount importance.
	The themes range from the synthesis of new generation biodegradable bioplastics from non-
	edible renewable sources, to the development of efficient and sustainable processes for the
	industrial synthesis of active pharmaceutical ingredients (APIs), to the identification and
	optimization of new eco-friendly procedures for the efficient degradation of emerging
	pollutants in water with the aim of preserving and, possibly, increasing the availability of
	uncontaminated water resources.
	All these projects begin with a study at the laboratory level and then move to industrial scale
	development, thanks to a secondment in a company, which is an integral part of the training
	of the PhD student.
Information on	Candidates must provide not less than one and not more than three recommendation letters to
recommendation letters	support their application. The authors are university professors or experts in the research topics
	of the PhD course and they must provide the letters within the deadline of the call, exclusively
	by email to: marina.dicarro@unige.it (subject: PhD_letter).
	The name, status and place of employment of the authors of the recommendation letters must
	be stated in the application.
Foreign Languages	English
Further information	Prof. Marina Di Carro
	(+39) 01035356198 <u>marina.dicarro@unige.tt</u>
	A dministrative contect person
	Autimits trative contact person Mrs. Noami Pratalli
	(+39) 01035358752 noemi@chimica.unige.it
	(157) 01055550152 <u>moonie oninica.unigo.u</u>

Course in: SCIENCE AND TECHNOLOGY OF CHEMISTRY AND MATERIALS

Curriculum: PHARMACEUTICAL, NUTRITIONAL AND COSMETIC SCIENCES (CODE 8930)

Coordinatore: Renata Riva	
Department of Chemistry an	d Industrial Chemistry (DCCI)
Places: 1 – Grants: 1	
The annual gross amount of t	he grant, including social security expenses to be paid by the recipient, is \notin 15.343,28.
A research period in company	(minimum 6 months) in Italy or abroad is expected
Comparative assessment	QUALIFICATIONS/PUBLICATIONS AND INTERVIEW
procedure	
Interview	Date, hour and how the interview will be carried out will be posted by 11.11.2021 on the web
	The interview may take place electronically (Skype Teams atc.) for justified reasons For the
	numose of identification the candidate has to show the original document (the same provided
	in the application).
Further information on	Evaluable qualifications:
how to present	1 advantional qualifications with marker
qualifications/publications	1. educational qualifications with marks;
	2. transcriptor records (list of exams with marks), 3. recommendation letters (maximum three):
	A research project written in Italian or English:
	5. curriculum <i>vitae et studiorum</i> :
	6. additional qualifications (postgraduate qualifications, publications in scientific journals,
	congress presentations, patents, study or research awards).
	All candidates have to attach to the application the certificates related to all the academic
	qualifications, reporting the mark and duration of the study cycles. For students not yet
	graduated, who are admitted <i>sub condicione</i> , the presentation of the certificate is required with
	the marks obtained in the individual exams.
	Foreign applicants must also clearly report the number of years corresponding to each cycle
	of studies carried out before enrolling in the University.
	In case of admission to the doctorate, the candidate will agree on the final project with the
	Coordinator of the doctorate.
Exam syllabus	The candidate will discuss with the Committee the research project he/she has presented. The
	Committee will evaluate the research project for its originality, feasibility, methodology,
	timeline and relevance within the research topics listed in the call. In this way the Committee
	will be able to evaluate the candidate's attitude to develop a scientific project. During the
D ogoorah thomos	The recorrely the continuities will ascertain the candidate knowledge of English language.
Resear ch themes	(FTs) as new nutraceutical ingredient form plant material (i.e. berries and chestmuts)
	exploiting green technologies, such as ultrasound assisted extractions and GRAS (Generally
	Recognized As Safe) solvents.
	A very important issue of the project will be the stabilization of the aqueous extracts through
	an appropriate "coating material" prepared from waste material from fishery industry.
Information on	Candidates must provide not less than one and not more than three recommendation letters to
recommendation letters	support their application. The authors are university professors or experts in the research
	topics of the PhD course and they must provide the letters within the deadline of the call,
	exclusively by email to: <u>cichero@difar.unige.it</u> (subject: PhD_letter).
	The name, status and place of employment of the authors of the recommendation letters must
	be stated in the application.
Foreign Languages	English
Further information	Prof. Elena Cichero
	(+39) 0103538350
	<u>cichero@difar.unige.it</u>
	A dministrative contest norson
	Mrs. Noemi Pretelli
	(+39) 01035358752
	noemi@chimica.unige.it

Curriculum: BIOLOGY APPLIED TO AGRICULTURE AND TO THE ENVIRONMENT (CODE 8931)

Coordinator: Marco Scamb	pelluri	
Department of Earth, Environmental and Life Sciences (DISTAV)		
Places: 2 - Grants: 2		
The annual gross amount of the grant, including social security expenses to be paid by the recipient, is \notin 15.343.28.		
A research period in compan	y (minimum 6 months) in Italy or abroad is expected	
Comparative assessment	QUALIFICATIONS/PUBLICATIONS AND INTERVIEW	
procedure		
Interview	Date, hour and how the interview will be carried out will be posted by 11.11.2021 on the web	
	page https://unige.it/usg/it/dottorati-di-ricerca	
Further information on	Qualifications are all information contained in the application and in the documents attached	
how to present	to it.	
qualifications/publications	The application must include:	
	a) the curriculum vitae et studiorum of the PhD candidate (maximum ten pages)), with	
	indication of the final mark of the master degree;	
	b) a research project concerning only one of the two research themes published in this additional	
	call of the National Operational Program (PON) of the XXXVII cycle of the Doctorate in	
	Sciences and Technologies for the Environment and the Territory of the University of Genoa	
	(curriculumBiology applied to 'agriculture and the environment) (maximum ten pages);	
	c) a document containing the title and a brief description of the Master's thesis, together with	
	the list of exams and their marks;	
	d) the titles documenting the qualifications acquired by the PhD candidate during his /her career	
	that are relevant to the research project submitted and to the Doctorate Course (maximum ten	
	pages);	
	e) minimum one, up to three reference letters.	
	PhD candidates can apply in English and Italian	
Exam Syllabus	The interview will deal with:	
	1- the knowledge of biological themes and processes. The topics covered during the discussion	
	are both of general interest, as well as specific to the proposed research.	
	2- the activity carried out by the PhD candidates during their course of study and during the	
	Master's degree thesis, their level of knowledge of the related topics and of the analytical and	
	experimental methodologies related to the Master Thesis and to research topic of the project	
	presented;	
	5- the research topic that the candidate and a developing during the PhD.	
Descende Thomas	4 - the knowledge of the English anguage.	
Research Themes	STAT Doctoral Cycle (Farth Sciences curriculum) are addressed. All topics are related to the	
	Green line of the DON program Candidates must choose only one research topic and write a	
	proposal of maximum 10 pages. More detailed descriptions of the topics are available on the	
	STAT PhD website (http://www.distay.unige.it/phdstat/it - Research lines).	
	1) Evaluation of the cosmetic efficacy of polyunsaturated fatty acids extracted from plant and	
	animal waste.	
	2) Characterization and application of microbial consortia for the reutilization of organic wastes	
	from different origins.	
Information on references	The candidate must choose minimum one, up to three referents supporting their PhD	
	application. In their application forms, the PhD candidates must indicate the name, qualification	
	and Institution of each referent. Referents must be University professors and researchers, or	
	wellknown experts in the subject. Referents must send their letters in "pdf" format, within the	
	deadline for submitting the application to Prof. Mauro Mariotti (m.mariottii@unige.it), the	
	responsible for the Doctorate curriculum.	
Foreign Languages	English	
Further Information	Further information can be requested to	
	Prof. Mauro Mariotti, m.mariotti@unige	

Curriculum: EARTH SCIENCES (CODE 8932)

Coordinator: Marco Scambelluri		
Department of Earth, Enviro	onmental and Life Sciences (DISTAV)	
Places: 2 - Grants: 2		
The annual gross amount of	f the grant, including social security expenses to be paid by the recipient, is \notin 15.343,28.	
A research period in company	y (minimum 6 months) in Italy or abroad is expected	
Comparative assessment	QUALIFICATIONS/PUBLICATIONS AND INTERVIEW	
procedure		
Interview	Date, hour and how the interview will be carried out will be posted by 11.11.2021 on the web	
	page https://unige.it/usg/it/dottorati-di-ricerca	
	For information	
	Prof. Marco Scambelluri	
	Dipartimento di Scienze della Terra dell'Ambiente e della Vita (DISTAV)	
	(+39) (11)3538307 marco scambelluri@unige it	
Further information on	By titles are meant all information contained in the application form and in the documents	
how to present	attached to it. The application must be accompanied by:	
qualifications/nublications	attached to it. The application must be accompanied by.	
quantications/publications	a) the condidata's curriculum vitagent studiorum (maximum tan pages) with indication of the	
	degree mark	
	dcgicc mark	
	b) a research project relating to one of the research topics published in the call of the AAA vir	
	University of Conce (Forth Sciences and rectifiologies for the Earth and the Environment of the	
	o inversity of Oenoa (Latin Sciences curricului, maximum ten pages)	
	the list of a vorument containing the title and an abstract of the Master's degree thesis, together will	
	d) any additional documented qualification acquired during the candidate's career and relating	
	(d) any additional documented quantication acquired during the candidates career and relating	
	(maximum ton pages)	
	(maximum tempages)	
	Candidates can write their project and application forms either in Italian or in English	
Fyam Syllabus	The interview will deal with:	
	1. the general knowledge of geological themes, processes and objects both of general culture	
	and of interest to the proposed research	
	2 - an in-depth discussion of the activity carried out by the candidate during his/her studies and	
	during his/ber master's degree thesis. The interview will also test the candidate's knowledge of	
	the basic topics of the analytical and work tools and of the experimental methodologies	
	nertinent to the research tonic dealt with in the project presented	
	3_{-} the specific research topic that the candidate intends to develop during the research	
	doctorate	
	4 - an evaluation of the candidate's knowledge of the English language	
Research Themes	Hereafter are listed the research topics on which the PhD position granted for the XXXVII	
Research Themes	STAT Doctoral Cycle (Farth Sciences curriculum) are addressed. All topics are related to the	
	Green line of the PON program. Candidates must choose only one research topic and write a	
	proposal of maximum 10 pages. More detailed descriptions of the topics are available on the	
	STAT PhD website (http://www.distay.unige.it/phdstat/it - Research lines)	
	1) Palaeoecology and resilience of planktonic and benthic communities through	
	major Cenozoic climatic perturbations, as a proxy for future climatic changes.	
	2) Hydro-geomorphological research in Liguria applied to the multi-service network for	
	integrated monitoring, management and mitigation of geo-hydrological hazards in context of	
	climate change	
	3) innovative methods with low environmental impact in the conservation of cultural heritage	
	4) Increase the knowledge of natural systems through the evaluation of the uncertainty of	
	environmental data: operational theory and application	
Information on references	Candidates must choose minimum one and maximum three referents writing a reference letter	
	in support of their PhD application. In the application form candidates must indicate the name	
	qualification and institution of each referent, who must be university professors, qualified	
	members of major research centers and institutions, and qualified experts in the subject	
Foreign Languages	English	
Further Information	Further information can be requested to	
	Prof. Marco Scambelluri marco.scambelluri@unige	

Curriculum: ELECTRICAL ENGINEERING (CODE 8933)

Coordinator: Mario March	lesoni	
Department of Marine, Electrical, Electronic and Telecommunications Engineering – DITEN		
Places: 1 – Grants: 1		
The annual gross amount of	the grant, including social security expenses to be paid by the recipient, is \notin 15.343,28.	
A research period in compan	y (minimum 6 months) in Italy or abroad is expected	
Comparative assessment	QUALIFICATIONS/PUBLICATIONS AND INTERVIEW	
procedure		
Interview	Date, hour and how the interview will be carried out will be posted by 11.11.2021 on	
	the web page https://unige.it/usg/it/dottorati-di-ricerca	
Further information on	Applicants will have to submit:	
how to present	1) a research project up to 10 pages long;	
quantications/publications	2) an updated CV ; 2) a short abstract of the mestor's thesis	
Even Syllebuc	5) a short abstract of the master's thesis.	
Exam Synabus	s necific interests in the field. English language test	
Research Themes	(Δ) Technical economic evaluations for the energy market. Distributed generation	
Research mentes	Ouality of service Ontimization algorithms distribution management systems load	
	forecasts and renewable energy resources with methods based on artificial intelligence	
	data mining, big data and probabilistic evaluation of security. Modeling, control and	
	management of microgrids.	
	(B) Development of innovative algorithms and software tools for managing the energy	
	flows of complex plant realities with the aim of optimizing their operation from a plant,	
	electrical system and market perspective.	
	(C) Electromagnetic compatibility between electrical, power electronic and	
	communications systems. Modeling, simulation and measurement methods. Numerical	
	modeling of lightning currents.	
Information on references	Candidates must choose not less than one and not more than three referees to support	
	the application. These referees must be university professors or experts in the subject	
	and it will be their concern to send reference letters, within the deadline of the public	
	notice, to the Coordinator of the Doctoral Course at the following address:	
	mario.marchesoni@unige.it. The name, status and service place of the referees chosen	
	by the candidates must be stated in their applications.	
Foreign Languages	English	
Further Information	Prof. Mario Marchesoni	
	University of Genova	
	Nevel A rehitecture)	
	Naval Alchitecture) Via all'Opera Dia 11a I 16145 Genova Italy	
	via all'operati a 11a, 1-10145 - Oellova, italy	
	$t_{el} + 39 0103532183$; $f_{ax} + 39 0103532700$;	
	101, 15, 0103532103, 102, 103532700,	
	Laura Brunelli	
	University of Genova	
	DITEN (Department of Electrical, Electronics and Telecommunication Engineering and	
	Naval Architecture)	
	Via all'Opera Pia 11a, I-16145 - Genova, Italy	
	brunelli@dinav.unige.it	
	tel: +39 0103532286; fax: + 39 0103532777	

Course in: SCIENCE AND TECHNOLOGY FOR ELECTRICAL ENGINEERING, COMPLEX SYSTEMS FOR MOBILITY

Coordinator: Mario March	lesoni
Department of Marine, Elec	trical, Electronic and Telecommunications Engineering – DITEN
Places: 1 – Grants: 1	
The annual gross amount of	the grant, including social security expenses to be paid by the recipient, is \notin 15.343,28.
A research period in compan	y (minimum 6 months) in Italy or abroad is expected
Comparative assessment	QUALIFICATIONS/PUBLICATIONS AND INTERVIEW
procedure	
Interview	Date, hour and how the interview will be carried out will be posted by 11.11.2021 on
	the web page https://unige.it/usg/it/dottorati-di-ricerca
Further information on	Applicants will have to submit:
how to present	1) a research project up to 10 pages long;
qualifications/publications	2) an updated CV;
	3) a short abstract of the master's thesis.
Exam Syllabus	Interview on the submitted research project, the PhD course topics, and the candidate's
	specific interests in the field. English language test.
Research Themes	(A) Complex systems in electrical and naval engineering: electrical networks, naval
	systems, innovative automation systems. (B) Components and technological systems for
	means of transport that allow to reduce the external costs of transport and to raise safety
	of such systems (C). Modeling of complex systems formulation (identification of
	of such systems. (C) would be complex systems, formulation / identification of methometical models (starting from or particulated) and their analysis and numerical
	simulation for a nervy saving. The models will mainly refer to the electrical and maritime
	Simulation for energy saving. The models will mainly refer to the electrical and maintine sector. (D) Modeling tool for evaluating apergy performance and greenhouse reduction
	in operatives him
Information on references	Candidates must choose not less than one and not more than three referees to support
	the application. These referees must be university professors or experts in the subject
	and it will be their concern to send reference letters, within the deadline of the public
	notice. to the contact person of the Complex Systems for Mobility Curriculum at the
	following address: federico.silvestro@unige.it. The name, status and service place of
	the referees chosen by the candidates must be stated in their applications.
Foreign Languages	English
Further Information	Prof. Federico Silvestro
	University of Genova
	DITEN (Department of Electrical, Electronics and Telecommunication Engineering
	and Naval Architecture)
	via all'Opera Pia, 11a, I-16145 - Genova, Italy
	Email: federico.silvestro@unige.it
	Tel: +39-010-353-2723; fax: +39-010-353-2700;
	Laura Brunelli
	University of Genova
	DITEN (Department of Electrical, Electronics and Telecommunication Engineering and
	Naval Architecture)
	Via all Opera Pia 11a, 1-16145 - Genova, Italy
	brunelli@dinav.unige.it t_{1} , 20,0102522296c, from t_{2} , 20,0102522777
	1000000000000000000000000000000000000

Curriculum: COMPLEX SYSTEMS FOR MOBILITY (CODE 8934)

Curriculum: ELECTROMAGNETISM, ELECTRONICS, TELECOMMUNICATIONS (CODE 8935)

Coordinator: Maurizio Valle	
Department of Marine, Electrical, Electronic and Telecommunications Engineering - DITEN	
Places: 3 – Grants: 3	
The annual gross amount of	the grant, including social security expenses to be paid by the recipient, is \in 15.343,28.
A research period in compan	y (minimum 6 months) in Italy or abroad is expected
Comparative assessment	QUALIFICATIONS/PUBLICATIONS AND INTERVIEW
procedure	
Interview	Date, hour and how the interview will be carried out will be posted by 11.11.2021 on the web page https://unige.it/usg/it/dottorati-di-ricerca
Further information on	The candidates must clearly highlight in the Curriculum Vitae the following features as they
how to present	will be used for the evaluation: the publication list (e.g. in International Journals, International
qualifications/publications	Conferences, Book Chapters), the achieved degree mark (or equivalent qualification), the work
	experience and the acquired skills. The following features of the submitted research project will
	be in particular assessed: relevance to the research themes that appear in this public call,
	originality, implementation, feasibility, clarity of presentation. The research project
	MAXIMUM LENGTH IS 10 PAGES A possible structure of the research project plan is the
	following: - Motivations - State of the art - Objectives - Employed methods - Preliminary work
	plan - Expected outcomes - References
Exam Syllabus	The interview will aim to verify the candidate's competence in relation to the listed research
	themes and the methodological approach to deal with research projects. In addition, the
	interview will focus on the themes of the research project, submitted by the candidate, related
	to the instearch there is a second seco
	the candidate's identity upon request to the Coordinator of the Doctoral Course Prof Maurizo
	Valle by email message addressed to maurizio valle@unige it_subject: Interview Ph D STIET
	XXXVII cvcle.
Research Themes	• Green and Scalable 5G/6G Networks fore- Health services
	• Environmental sustainability of ICTs: assessment methodology, measurement issues and
	research tracks
	• Study on the use of low-cost low-power microwaye technologies for the real-time detection
	of gravity-driven natural hazards
Information on references	Candidates MUST choose not less than one and not more than three referees to support their
	candidature. The referees must be university professors or experts in the topic of the Research
	Theme. It will be concern of referees to send reference letters, with in the deadline of the public
	notice, to the Coordinator of the Doctoral Course at the following addresses:
	maurizio.valle@unige.it, with subject: Ph.D. STIET XXXVII cycle Candidate reference letter.
	The candidate MUST indicate in the application names, status and affiliation of the referees.
	The referees MUST clearly indicate in the reference letters the supported candidate's aptitude
	to scientific research development.
Foreign Languages	
Further Information	More detailed information on the specific themes at: http://www.phd-stiet.diten.unige.it for
	Turtner information please contact: Prof. Maurizio Valle DITEN - Università di Genova Va
	Opera Pia 11A 16145, Genova, Italy maurizio.valle@unige.it

Curriculum: GENEFICS (CODE 8936)

Coordinator: Carlo Minetti	
Department of Neurology, Rehabilitation, Ophthalmology, Genetics, Maternal and Child Health (DINOGMI)	
Places: 1 - Grants: 1	
The annual gross amount of	The grant, including social security expenses to be paid by the recipient, is \notin 15.343,28.
A research period in compan	y (minimum 6 months) in Italy or abroad is expected
Comparative assessment	QUALIFICATIONS/PUBLICATIONS AND INTERVIEW
procedure	
Interview	Date, hour and how the interview will be carried out will be posted by 11.11.2021 on the web
	page https://unige.it/usg/it/dottorati-di-ricerca
	Department of Neurology, Rehabilitation, Ophthalmology, Genetics, Maternal and Child
	Health (DINOGMI), Aula Magna, G. Gaslini Institute, pavilion 16, 1st floor, via G. Gaslini 5,
	denoa. The interview may take place, at the request of the interested party of it the nearly action makes it necessary also alcostronically. Can didates requesting the online proceedure
	situation makes it necessary, also electronically. Candidates requesting the online procedule
	(rosanna rizzo@unige.it) at least 15 days before the interview. To this end, the candidate must
	have a reliable internet connection in order to allow the test to take place
Further information on	All candidates are required to submit a research project proposal which they must
how to present	be structured according to the following items:
qualifications/publications	- research objectives
· ·	- research methodology
	- innovation criteria with respect to the existing scientific disciplinary landscape
	- bibliography
	- evaluation of the impact of research
	(The project must be carried out in a maximum of 15,000 characters, including bibliography).
	This project will be evaluated by the Commission together with the qualifications and will be
	the subject of discussion during the oral exam. On the day of the interview, candidates can
	submit a portfolio relating to study/research experiences already undertaken
Exam Syllabus	Contents of the interview:
	- project ideas:
	- project lucas,
	- knowledge of the Fnglish language
Research Themes	In-depth study of new methodologies for the generation and morpho-functional studies of
	cellular models for the study of neurological genetic diseases, with particular reference to
	neuronal cultures derived from induced pluripotent stem cells and brain organoids.
Information on references	Candidates should choose not less than one and not more than three referees to support their
	candidacy. These referees must be university professors or experts in the subject. It will be the
	responsibility of the referents to send the reference letters, within the deadline of the call, to the
	Coordinator of the PhD course Prof. Carlo Minetti minettic@unige.it and for information:
	rosanna.rizzo@unige.it.
	In the admission application, candidates must indicate the name, qualification and place of
The set of the set	employment of the contact persons chosen by them.
Foreign Languages	English Sie as Deserves Dime
rurther information	SIG.ra Kosanna Kizzo
	vio-330037
	105anna.nzzo@unige.n

Curriculum: MUSCULAR, NEURODEGENERATIVE, METABOLIC DISEASES IN CHILDREN, ADOLESCENTS (CODE 8937)

Coordinator: Carlo Minett	i
Department of Neurology, F	Rehabilitation, Ophthalmology, Genetics, Maternal and Child Health (DINOGMI)
Places: 1 - Grants: 1	
The annual gross amount of	The grant, including social security expenses to be paid by the recipient, is \notin 15.343,28.
A research period in compan	y (minimum 6 months) in Italy or abroad is expected
Comparative assessment	QUALIFICATIONS/PUBLICATIONS AND INTERVIEW
procedure	
Interview	Date, hour and how the interview will be carried out will be posted by 11.11.2021 on the web
	page https://unige.it/usg/it/dottorati-di-ricerca
	Department of Neurology, Rehabilitation, Ophthalmology, Genetics, Maternal and Child
	Health (DINOGVII), Aula Magna, G. Gasini Institute, pavinon 16, 1st floor, via G. Gasini 5,
	Genoa. The interview may take place, at the request of the interested party of if the near
	must contact Prof Carlo Minetti (minettic@unice it) and Ms Rosanna Rizzo
	(rosanna rizzo@uniga it) at least 15 days before the interview. To this and the candidate must
	have a reliable internet connection, in order to allow the test to take place
Further information on	All candidates are required to submit a research project proposal which they must
how to present	be structured according to the following items:
qualifications/publications	- research objectives
	- research methodology
	- innovation criteria with respect to the existing scientific disciplinary landscape
	- bibliography
	- evaluation of the impact of research
	(The project must be carried out in a maximum of 15,000 characters, including bibliography).
	This project will be evaluated by the Commission together with the qualifications and will be
	the subject of discussion during the oral exam. On the day of the interview, candidates can
	submit a portfolio relating to study/research experiences already undertaken
Exam Syllabus	Contents of the interview:
	- previous experience of research work, including that which concerned the degree thesis;
	- project lueas; knowledge of basic methodologies for clinical research:
	- knowledge of the Finglish language
Research Themes	-Global warming as a chronic process punctuated by acute episodes of extreme weather events.
	-Climate-driven altered risks for seizures, epilepsy and epileptogenesis:
	-Underlying mechanisms at systems, cellular and molecular levels impacting climate change
	and epilepsy.
Information on references	Candidates should choose not less than one and not more than three referees to support their
	candidacy. These referees must be university professors or experts in the subject. It will be the
	responsibility of the referents to send the reference letters, within the deadline of the call, to the
	Coordinator of the PhD course Prof. Carlo Minetti minettic@unige.it and for information:
	rosanna.rizzo@unige.it.
	In the admission application, candidates must indicate the name, qualification and place of
Fourier Longers	employment of the contact persons chosen by them.
Foreign Languages	Englisn Sie as Desearate Disso
rurmer mormation	Sig.1a Kosainia Kizzo 010.3538037
	rocanna rizzo@unice it
	108anna.nzzo@unige.u

Course in: SOCIAL SCIENCES

Curriculum: MIGRATIONS AND INTERCULTURAL PROCESSES (CODE 8938)

Coordinator: Luca Andrighetto		
Department of Education - DISFOR		
Places: 1-Grants: 1		
The annual gross amount of	the grant, including social security expenses to be paid by the recipient, is \notin 15.343,28.	
A research period in compan	y (minimum 6 months) in Italy or abroad is expected	
Comparative assessment	QUALIFICATIONS/PUBLICATIONS AND INTERVIEW	
procedure		
Interview	Date, hour and how the interview will be carried out will be posted by 11.11.2021 on	
	the web page https://unige.it/usg/it/dottorati-di-ricerca	
	The interview will take place electronically, through Teams or Skype platform, or in	
E-stherinformation on	presence according to the candidates choice.	
Further Information on	1 ne following titles will be evaluated.	
now to present	1. Quality of the research project which will be presented by candidate	
quanneauons/puoneauons	2. Research experiences and scientific publications 3. Master's or four year degree thesis, which can be attached in PDE format	
	A A codemic curriculum and degree mark	
	4. Academic currentinana degree mark	
	The Commission will reserve the possibility of setting a minimum score threshold	
	obtained by the candidate in the titles' evaluation in order to access the interview.	
Exam Svllabus	The research project presented must be inherent to the research topics of the Migration	
	Curriculum listed below.	
	The interview will focus on the discussion of the research project and the titles	
	presented, also with attention to general aspects of research methodology in social	
	sciences.	
	The interview can be held in Italian or English/French/Spanish, according to candidates'	
	choice.	
	If the interview will take place in Italian, knowledge of the English, spanish or french	
	language will be assessed during the interview.	
Research Themes	Climate change and forced migrations	
	Environmental changes and forced migrations	
	Infrastructures avtractivismend forced migrations	
Information on references	Reference letters are not required. In any case, reference letters received will not be	
IIIO muuon on rener energy	taken into consideration for the purposes of the evaluation.	
Foreign Languages	English, french, spanish	
Further Information	Website: https://scienzesociali.dottorato.unige.it/	
	-	
	Curriculum coordinator: Prof.ssa Nadia Rania	
	DISFOR, Corso Podestà 2, 16128 Genova	
	nadia.rania@unige.it	
	Coordinator of the Phd course in Social Science:	
	Prot. Luca Andrighetto	
	DISFOR, C.So Podesta, 2	
	<u>luca.andrighetto@unige.tt</u>	
	Δ dministrative manager.	
	Dott sea Francesca Figue	
	DISFOR C so Podestà 2	
	dottoratoscienzesociali disfor@unige.it	

Curriculum: PSYCHOLOGY AND COGNITIVE SCIENCES (CODE 8939)

Coordinator: Luca Andrighetto		
Department of Education - DISFOR		
Places: 1 – Grants: 1		
The annual gross amount of the grant, including social security expenses to be paid by the recipient, is \notin 15.343.28.		
A research period in company (minimum 6 months) in Italy or abroad is expected		
Comparative assessment QUALIFICATIONS/PUBLICATIONS AND INTERVIEW		
procedure		
Interview Date, hour and how the interview will be carried out will be posted by	11.11.2021 on	
the web page https://unige.it/usg/it/dottorati-di-ricerca		
The interview will take place electronically, through Teams or Skype pla	.tform.	
Further information on The following titles will be evaluated:		
how to present 1. Quality of the research project which will be presented by candidate		
qualifications/publications 2. Research experiences and scientific publications		
3. Master's or four-year degree thesis, which can be attached in PDF form	nat	
4. Academic curriculum and degree mark		
The Commission will reserve the possibility of setting a minimum so	core threshold	
obtained by the candidate in the titles' evaluation in order to access the in	nterview.	
Exam Syllabus The research project presented must be inherent to the research topics of t	he Ps ychology	
and Cognitive Sciences Curriculum listed below.	1.1 .1.1	
The interview will focus on the discussion of the research project	and the titles	
presented, also with attention to general aspects of research methodology	in psychology	
and data analysis techniques in the specific disciplinary areas.		
I ne interview can be neid in Italian or English, chosen by the candidate.		
If the interview will take place in Italian, knowledge of the English lan	iguage will be	
assessed during the interview.		
Descense Themes Assessment and interventions for neurodevelopmental disorders or spec	ialaducational	
Research Thenes Assessment and interventions for neurodevelopmentar disorders of spec.	lateuucauonai	
Neuronsychological assessment in childhood		
Psychological tele-assessment and tele-intervention with children		
Digital technologies for cognitive training and cognitive rehabilitation in	childhood	
Cognitive training in children	ennun oo u	
Information on references Reference letters are not required. In any case, reference letters receiv	ed will not be	
taken into consideration for the purposes of the evaluation.		
Foreign Languages English		
Further Information Website: https://scienzesociali.dottorato.unige.it/		
Curriculum coordinator: Prof.ssa Cecilia Serena Pace		
DISFOR, Corso Podestà 2, 16128 Genova		
010 20953728		
cecilia.pace@unige.it		
Coordinator of the Phd course in Social Science:		
Prof. Luca Andrighetto		
DISFOR, C.so Podestà, 2		
luca.andrighetto@unige.it		
A dministrative manager.		
Dott ssa Francesca Figus		
Dott.ssa Francesca Figus DISFOR. C.so Podestà 2		

Curriculum: POLITICAL SCIENCES (CODE 8940)

Coordinator: Luca Andrighetto		
Department of Education - DISFOR		
Places: 2–Grants: 2		
The annual gross amount of	The grant, including social security expenses to be paid by the recipient, is \notin 15.343,28.	
A research period in compan	y (minimum 6 months) in Italy or abroad is expected	
Comparative assessment	QUALIFICATIONS/PUBLICATIONS AND INTERVIEW	
procedure		
Interview	Date, hour and how the interview will be carried out will be posted by 11.11.2021 on	
	the web page https://unige.it/usg/it/dottorati-di-ricerca	
	The interview will take place electronically, through Teams or Skype platform.	
Further information on	The following titles will be evaluated:	
how to present	1. Quality of the research project which will be presented by candidate	
quantications/publications	2. Research experiences and scientific publications	
	3. Master's or four-year degree thesis, which can be attached in PDF format	
	4. Academic cumculumana degree mark	
	The Commission will reserve the possibility of setting a minimum score threshold	
	obtained by the candidate in the titles' evaluation in order to access the interview.	
Exam Syllabus	The research project presented must be inherent to the research topics of the Psychology	
	and Cognitive Sciences Curriculum listed below.	
	The interview will focus on the discussion of the research project and the titles	
	presented, also with attention to general aspects of research methodology and data	
	analysis techniques in the specific disciplinary areas.	
	The interview can be held in Italian or English, chosen by the candidate.	
	If the interview will take place in Italian, knowledge of the English language will be	
	assessed during the interview.	
Research Themes	Factual knowledge and experts' role	
	Science, society and technology	
	Citizen science	
	Inclusive, sale, resment and sustainable clues	
Information on references	Paterance latters are not required in any case, reference letters received will not be	
	taken into consideration for the nurnoses of the evaluation	
Foreign Languages	Fnolish	
Further Information	Website: https://scienzesociali.dottorato.unige.it/	
	Referente di Curriculum:	
	Prof. Paolo Parra Saiani	
	DISPO, Piazzale Emanuele Brignole 3a	
	paolo.parra.saiani@unige.it	
	Coordinator of the Phd course in Social Science:	
	Prof. Luca Andrighetto	
	DISFOR, C.so Podesta, 2	
	<u>luca.andrigheuowunige.u</u>	
	Administrative manager:	
	Dott.ssa Francesca Figus	
	DISFOR, C.so Podestà2	
	dottoratoscienzesociali.disfor@unige.it	

Course in: SECURITY, RISK AND VULNERABILITY

Curriculum: SECURITY AND LAW (CODE 8941)

Coordinator: Alessandro Armando		
Centro Strategico Interdipa	rtimentale su Sicurezza, Rischio e Vulnerabilità	
Places: 1 – Grants: 1		
The annual gross amount of	the grant, including social security expenses to be paid by the recipient, is \notin 15.343,28.	
A research period in compan	y (minimum 6 months) in Italy or abroad is expected	
Comparative assessment	QUALIFICATIONS/PUBLICATIONS AND INTERVIEW	
procedure		
Interview	Date, hour and how the interview will be carried out will be posted by 11.11.2021 on the web	
	page https://unige.it/usg/it/dottorati-di-ricerca	
	Department of Law, meeting room of the former Private Law Section, 4th floor, (Stair B), via	
	Bailor 22, Genova. Interview by reams is possible as well: in this case it is required to send an	
	e-mail to the curriculum Coordinator prof. Giorgio Afferni (<u>giorgio afferni@unige.it</u>) at least /	
	In order to make sure that the interviews of the candidates conducted by the Evaluation	
	Commission are public and unique each candidate will be considered absent if due to	
	problems that do not depend on the commissioners' instrumentation they are unable to connect	
	within the same session	
	In case of a high number of applications it might be necessary to schedule the interviews in	
	different days.	
Further information on	"Qualifications" the information contained in the application and in the curriculum vitae et	
how to present	studiorum, the research project, further qualifications.	
qualifications/publications	The application form, its attachment and the research project can be written in Italian or English	
	or French or Spanish.	
Exam Syllabus	The comparative assessment will be based on an evaluation of the candidate's qualifications, a	
	research project and an interview designed to assess the skills and knowledge required for	
	admission to a PhD programme, in accordance with the objectives pursued by the Call FSE	
	REACT-EU Dottorati su tematiche dell'innovazione e green: nuove risorse dal PON	
	Ricerca e Innovazione (ruled by the D.M. August, 10th 2021, n.1061).	
	Mana and San Ilan	
	More specifically:	
	• The RESEARCH PROJECT, in accordance with the above mentioned call as it is specified in the following section "Besearch Themes" must fit into some of the research tonics of the PhD	
	programme It must contain a clearly defined research problem indicate basic methodological	
	choices list the main hibliography and give a rough outline of the argument(s) the candidate	
	will use to address the problem.	
	• The INTERVIEW will be used to discuss the research project presented by the candidate.	
Research Themes	Lines of research are focused on the following macro-areas:	
	- Conceptual analysis of legal is sues connected to security, risk, and vulnerability in public or	
	private law;	
	- Doctrinal analysis of legal issues connected to security, risk and vulnerability in public or	
	private law;	
	- Economic analysis of legal issues connected to security, risk, or vulnerability in public or	
	private law.	
	In accordance with the chiestives availed by the Call EVE DEACT EU Detteration	
	In accordance with the objectives pursued by the Call FSE REACT-EU Dottorial su	
	by the D M August 10th 2021 n 1061) the RESEARCH PROJECT must illustrate a project	
	coherent with the importance of the new technologies in the automation of both the public	
	administration and administrative judgement with the aims of redesigning the public action.	
	To this end, the research project must pay attention to the role of the artificial intelligence, as a	
	tool used by the public administration in order to encourage sustainable development and	
	ecological transition practices (such as, for example, the use of the new technologies in	
	managing environmental, climate and hydrogeological risks, and organising the activities of	
	the Civil protection).	
	The formation and advice an home to make the state of the	
	Information and advice on now to write the research project are available at the web page	
	Candidates are invited to get in contact with the Curriculum Coordinator to obtain additional	
	details about the research themes.	

Information on references	Candidates must choose at least one and no more than three referees to support their
	candidature. The referees must be university professors or experts in the subject. If the referee
	is not a university professor, he/she must also send the Curriculum Vitae and a list of
	publications.
	The reference letter must be sent by the referees, within the deadline of the public notice, to the
	following email address: giorgio.afferni@unige.it.
	The name, status and current position of the referees chosen by the candidate must be stated in
	the application.
	Reference letters that are not presented as requested will not be taken into consideration.
Foreign Languages	English
Further Information	Curriculum Coordinator
	Prof. Giorgio Afferni
	DiGi, Università di Genova
	giorgio.afferni@unige.it

Curriculum: MANAGEMENT AND SECURITY (CODE 8942)

Coordinatory Alexandra Armanda		
Coor unator: Ales	Sandio Affiando	
Centro Strategico II	nterdipartimentale su Sicurezza, Rischio e vulnerabilita	
Places: 1 – Grants: 1		
The annual gross amount of the grant, including social security expenses to be paid by the recipient, is \neq 15.343,28.		
A research period in	n company (minimum 6 months) in Italy or abroad is expected	
Comparative	QUALIFICATIONS/PUBLICATIONS AND INTERVIEW	
assessment		
procedure		
Interview	Date, hour and how the interview will be carried out will be posted by 11.11.2021 on the web page	
	https://unige.it/usg/it/dottorati-di-ricerca	
	Department of Economics and Business Studies, via Vivaldi, 5 – 16126 Genova.	
	Interview can be held online as well (leams): in this case it is required to send an e-mail to the	
	curriculum Coordinator prof. Teresina Torre (teresina.torre@economia.unige.it) at least / days before	
	the interview. To this aim a stable internet connection is required to allow the proper carrying out of the	
	interview. In case of a right number of applications, it might be necessary to schedule the interviews in	
F (1	different days.	
Further	Qualifications is the information contained in the application and in the curriculum vitae et studiorum,	
how to mesont	Decords, stating the sources attended and marks obtained throughout the son didate's university some	
now to present qualifications/pub	(Bachalor and M Sc. degraec). Undergraduate candidates at the deadline of the public potice may submit	
lications	(Detector and W.Sc. degrees). Ondergraduate candidates at the dedune of the public noise may submit	
incutions	application form its attachment and the research project can be written in Italian or English	
Exam Syllabus	The comparative assessment will be based on an evaluation of the candidate's qualifications, a research	
L2xdin Syndous	project and an interview designed to assess the skills and knowledge required for admission to a PhD	
	programme, in accordance with the objectives pursued by the Call FSE REACT-EU Dottorati su	
	tematiche dell'innovazione e green: nuove risorse dal PON Ricerca e Innovazione (ruled by the	
	D.M. August, 10th 2021, n.1061).	
	More specifically:	
	• the research project, in accordance with the abovementioned call as it is specified in the following	
	section "Research Themes" must contain a clearly defined research problem, indicate basic	
	methodological choices, list the main bibliography, and give a rough outline of the argument(s) the	
	candidate will use to address the problem.	
	• The interview will be aimed at discussing the candidate's educational background and its	
	consistency with the Phd course, the research project presented by the candidate, the Curriculum	
	Vitae et Studiorumand other qualifications.	
Research Themes	The research themes that will be focused in the PhD program concern the implications of technological	
	innovation for organizational change, work transformation, transformation of workplaces and people	
	work life. Specific concern is devoted to the transition toward work contexts that are increasingly	
	technological, as enabling technologies of digital transformation are adopted in work practices such as	
	collaborative robots, artificial intelligence. This leads to change in work processes, competences,	
	learning, motivation, communication schemes, coordination and safety. Specific research projects that	
	are currently active at DIEC as part of koint collaboration with III concern the organizational	
	implication of collaborative numanoid or non-numanoid robotics and artificial intelligence in the	
	Condidates can develop an original research tonic taking inquiration from these research fields.	
	Candidates are invited to get in contact with the Curriculum Coordinator to obtain additional details	
	about the research themes	
Information on	Candidates must choose at least one and no more than three referees to support their candidature. The	
references	referees must be university professors or experts in the subject. If the referee is not a university	
	professor, he/she must also send the Curriculum Vitae and a list of publications.	
	The reference letter must be sent by the referees, within the deadline of the public notice, to the	
	following email address: teresina.torre@economia.unige.it.	
	The name, status and current position of the referees chosen by the candidate must be stated in the	
	application. Reference letters that are not presented as requested will not be taken into consideration.	
Foreign	English	
Languages		
Further	Curriculum Coordinator	
Information	Prof. Teresina Torre, DIEC	
	University of Genoa	
	teres in a. torre @economia.unige.it	

Curriculum: RISK AND RESILIENCE ENGINEERING FOR THE NATURAL, INDUSTRIALIZED AND BUILT ENVIRONMENTS (CODE 8943)

Coordinator: Alessandro A	rmando
Centro Strategico Interdipartimentale su Sicurezza, Rischio e Vulnerabilità	
Places: 3 - Grants: 3	
The annual gross amount of	The grant, including social security expenses to be paid by the recipient, is € 15.343,28.
A research period in compan	y (minimum 6 months) in Italy or abroad is expected
Comparative assessment	QUALIFICATIONS/PUBLICATIONS AND INTERVIEW
procedure	
Interview	Date, hour and how the interview will be carried out will be posted by 11.11.2021 on
	the web page https://unige.it/usg/it/dottorati-di-ricerca
	The interview will be at Baldacci Library of the Department of Civil. Chemical and
	Environmental Engineering (DICCA), Via Montallegro 1, 16145 Genova.
	Under request or because necessary due the COVID emergency, the interview may be
	held also in telematic way by sending an email to Prof. Serena Cattari
	(serena.cattari@unige.it) at least 7 days before the date scheduled. To this aima stable
	internet connection is required to allow the proper carrying out of the interview.
Further information on	The research project (10 pages max) must include a short abstract, the State of the Art
how to present	and relevant references and the aims of the research activity. The research project must
qualifications/publications	develop one of the research topics already proposed on the website
1	https://sicurezza.unige.net/admission/how-to-apply/themes-rrenib since they are
	consistent with the GREEN topics (Action IV.5) outlined by the ministerial decree
	10/08/2021 no.1061. In the candidate's research project, the title of the chosen project
	has to be indicated together with the candidate's research motivations.
	The application (curriculum) must contain Transcripts of Records, stating the courses
	attended and marks obtained throughout the candidate's university career (Bachelor and
	M.Sc. degrees). Undergraduate candidates at the deadline of the public notice may
	submit further documentation, which they deem appropriate, in order to do cument their
	university career.
Exam Syllabus	The interview will be a detailed scientific discussion on the candidate's research project
-	(10 pages max), Curriculum Vitae et Studiorum (10 pages max) and
	qualifications/publications (10 pages max). The interview is also aimed at verifying that
	the candidate has adequate knowledge to deal with studies in the chosen curriculum.
Research Themes	The curriculum deals with risk analyses and resilience studies addressed to as sess and
	tackle risks arising from natural hazards and anthropic activities and their impact on
	society, in terms of direct and indirect losses and their economic, social and
	environmental consequences.
	Within these goals and according to the GREEN topics (Action IV.5) outlined by the
	ministerial decree 10/08/2021 no.1061, the research topics of these grants will more
	specifically deal with:
	- the assessment and monitoring of the impacts of the climate change on weather
	phenomena and the design of control measures and mitigation policies for enhancing
	the sustainability and resilience of built and natural environments
	- the assessment of the impacts of new green technologies on process and personnel
	safety in industrial activities and the promotion of participatory processes with citizens
	to understand the new risk profile
	Provenue and the last single of the surgery density the interact days of the interaction of the surgery days of the surgery da
	For a more detailed description of the proposed topics the interested candidates may
	The condidate must develop his recearch project according to one of these specific
	topics, no additional topics are allowed to be proposed
Information on references	Condidates must choose at least one and no more than three references to support their
mormation on references	candidature The reference must be university professors or experts in the subject If the
	reference is not a university professor, he/she must also send the Curriculum Vitae and a
	list of nublications. The reference latter must be send by the reference within the
	deadline of the public notice to the following email address: serena cattari@unige it
	The name status and current position of the referees chosen by the candidate must be
	stated in the annlication Reference letters that are not presented as requested will not
	be taken into consideration
Foreign Languages	Fnølish
- ·· ·· Su mungungen	

Further Information	Curriculum Coordinator
	Prof. Serena Cattari
	DICCA – Via Montallegro 1 16145 Genova
	serena.cattari@unige.it

Curriculum: RISK, CLIMATE CHANGE AND SUSTAINABLE DEVELOPMENT (CODE 8944)

Coordinator: Alessandro Armando			
Centro Strategico Interdipartimentale su Sicurezza, Rischio e Vulnerabilità			
Places: 3 - Grants: 3	Places: 3 - Grants: 3		
The annual gross amount of	the grant, including social security expenses to be paid by the recipient, is \notin 15.343,28.		
A research period in compan	y (minimum 6 months) in Italy or abroad is expected		
Comparative assessment	QUALIFICATIONS/PUBLICATIONS AND INTERVIEW		
procedure			
Interview	Date, hour and how the interview will be carried out will be posted by 11.11.2021 on		
	the web page https://unige.it/usg/it/dottorati-di-ricerca		
	The interview will be at Palazzina Marchi campus Universitario Savona, Via		
	Magliotto 2, 17100 Savona.		
	Under request or because necessary due the COVID emergency, the interview may be		
	held also in telematic way by sending an email to Prof. Luca Ferraris		
	(<u>luca.ferraris@unige.it</u>) at least 7 days before the date scheduled. To this aima stable		
	internet connection is required to allow the proper carrying out of the interview.		
Further information on	The research project (10 pages max) must include a short abstract, the State of the Art		
how to present	and relevant references and the aims of the research activity. The research project		
qualifications/publications	must develop one of the research topics already proposed on the website		
	https://sicurezza.unige.net/admission/how-to-apply/themes-rccsd since they are		
	consistent with the GREEN topics (Action IV.5) outlined by the ministerial decree		
	10/08/2021 no.1061. In the candidate s research project, the title of the chosen project		
	has to be indicated together with the candidate's research motivations.		
	The application (cumculum) must contain transcripts of records, staming the courses		
	and M.S. degrees). Undergreduate candidates at the deadline of the public notice may		
	allu M.SC. degrees). Olidergraduate candidates at the deadline of the public house may		
	their university career		
Fyam Syllahus	The interview will be a detailed scientific discussion on the candidate's research project		
	(10 pages max). Curriculum Vitae et Studiorum (10 pages max) and		
	qualifications/publications (10 pages max). The interview is also aimed at verifying that		
	the candidate has adequate knowledge to deal with studies in the chosen curriculum.		
Research Themes	According to the GREEN topics (Action IV.5) outlined by the ministerial decree		
	10/08/2021 no.1061, the research topics of these grants will more specifically deal with:		
	- Modelling impacts of climate change on mega-fauna habitat in the Mediterranean Sea		
	- Environmental risks and climate change: migration and community resilience in the		
	Eastern Sub-Saharan Africa – IGAD Region Environmental risks and climate change:		
	migration and community resilience in the Eastern Sub-Saharan Africa – IGAD Region		
	- Integrated wildfire risk management: building wildfire resilient societies under climate		
	change scenarios		
	- Environmental risks and climate change: raising awareness and community resilience		
	For a more detailed description of the proposed topics the interested candidates may		
	refer to nttps://sicurezza.unige.net/admission/now-to-appiy/themes-recsu. The		
	candidate must develop his research project according to one of these specific topics, no		
Information on references	additionation by a standard to be proposed.		
	condidatura The references must be university professors or experts in the subject If the		
	referee is not a university professor he/she must also send the Curriculum Vitae and a		
	list of publications. The reference letter must be send by the referees, within the		
	deadline of the public notice to the following email address; luca ferraris @unige.it		
	The name, status and current position of the referees chosen by the candidate must be		
	stated in the application. Reference letters that are not presented as requested will not		
	be taken into consideration.		
Foreign Languages	English		
Further Information	Curriculum Coordinator		
	Prof. Luca Ferraris		
	DIBRIS – Campus Universitario - Via Magliotto 2 - 17100 Savona		
	luca.ferraris@unige.it		

Curriculum: HISTORY (CODE 8945)

Coordinator: Francesco Cassata		
Department of Antiquities, Philosophy and History – DAFIST		
Places: 1 – Grants: 1		
The annual gross amount of	The grant, including social security expenses to be paid by the recipient, is \notin 15.343,28.	
A research period in compan	y (minimum 6 months) in Italy or abroad is expected	
Comparative assessment	QUALIFICATIONS/PUBLICATIONS AND INTERVIEW	
procedure		
Interview	Date, hour and how the interview will be carried out will be posted by 11.11.2021 on	
	the web page https://unige.it/usg/it/dottorati-di-ricerca	
Further information on	Besides the qualifications/publications requested in the public notice exam, candidates	
how to present	are requested to submit by means of the online procedure together with their	
qualifications/publications	applications:	
	a) the four-year degree thesis, or specialist, or II level degree thesis (in pdf format) which	
	will be evaluated; (1 - 1) = 1 + 1 + 1 + 1 + 1 + 1 + 1 + 1 + 1 + 1	
	b) any publication (in pdf format), which will be evaluated;	
	c) a brief description of the research project proposed by the candidate (maximum	
	30,000 strokes plus an annotated bibliography), which will be evaluated.	
	The project must be organized according to the following points: 1) Objectives; 2)	
	Sources and state of the art; 3) Importance for the advancement of knowledge; 4)	
	Proposed methodology, 5) A developmental work plan.	
	CVe_titles_theses_publications and research projects must be presented in pdf format	
	attached to the application	
	Only the titles and publications relating to the LAST 3 SOLAR YEARS prior to the	
	calendar year of publication of the call (excluding the degree diploma which will be	
	assessed even if previous) will be assessed and deemed congruent with the research	
	topics of the PhD course and include:	
	······································	
	1) Master's degree or four-year degree (old system) or qualification deemed equivalent;	
	the thesis will be evaluated;	
	2) Scientific publications, consistent with the themes of the doctorate:	
	- books;	
	- essays in scientific journals (band A or B in the ANVUR classification);	
	- essays in collective volumes;	
	- short es says, historical-critical factsheets.	
	3) Others:	
	- Degrees obtained following the completion of specialization and / or specialization and	
	/ or advanced training courses, Masters in subjects related to the research courses of the	
	PhD course;	
	- PhD Diploma;	
	- Second degree in subjects related to the research courses of the PhD course;	
	- Scholarships, Awards, Fellowships;	
	- Research activity carried out at scientific institutions;	
	- Didactic activity carried out at university institutions;	
	- Cumcular study experiences abroad, Internships, trainagehing and professional experiences related to the research courses	
	of the PhD course.	
	- Expert of the subject or member of exam commissions in the university environment	
Fxam Syllabus	The interview will concern the presentation and discussion of the research project by the	
	candidate and is aimed at verifying its aptitude for scientific research	
	The evaluation will be based on the following criteria:	
	- argumentative skills in the presentation of the research project, knowledge of the state	
	of the art and general preparation on themes and topics related to the project;	
	- foreign language knowledge	
Research Themes	Environment as History: Environmental Issues in 20th Century Politics, Science and	
	Cultural Imaginary	
	Priority will be given to projects focused on the post-WW2 period, concerning:	
	- environmental movements in Italy and/or in the international context;	
	- the development of ecology as scientific and disciplinary field;	
	- environment and visual culture (art, photography, cinema, comics, etc.)	

	- environment and health;
	- environment, colonialism and post-colonialism.
	Partner for the 6-months stage: Einaudi Foundation, Torino
Information on references	Reference letters are not required. Reference letters eventually received will not be taken
	into consideration for the final evaluation
Foreign Languages	English, French, German and Spanish
Further Information	Contact: Prof. Francesco Cassata
	Email: <u>francesco.cassata@unige.it</u>

Curriculum: ART HISTORY (CODE 8946)

Coordinator: Francesco Cassata		
Department of Antiquities, Philosophy and History – DAFIST		
Places: 1 – Grants: 1		
The annual gross amount of	the grant, including social security expenses to be paid by the recipient, is \notin 15.343,28.	
A research period in compan	y (minimum 6 months) in Italy or abroad is expected	
Comparative assessment	QUALIFICATIONS/PUBLICATIONS AND INTERVIEW	
procedure		
Interview	Date, hour and how the interview will be carried out will be posted by 11.11.2021 on	
	the web page https://unige.it/usg/it/dottorati-di-ricerca	
Further information on	Besides the qualifications/publications requested in the public notice exam, candidates	
how to present	are requested to submit by means of the online procedure together with their	
qualifications/publications	applications:	
	a) the four-year degree thesis, or specialist, or II level degree thesis (in pdf format) which	
	will be evaluated;	
	b) any publication (in pdf format), which will be evaluated;	
	c) a brief description of the research project proposed by the candidate (maximum	
	30,000 strokes plus an annotated bibliography), which will be evaluated.	
	The project must be organized according to the following points: 1) Objectives; 2)	
	Sources and state of the art; 3) Importance for the advancement of knowledge; 4)	
	Proposed methodology; 5) A developmental work plan.	
	CVs, titles, theses, publications and research projects must be presented in pdf format,	
	attached to the application.	
	Only the titles and publications relating to the LAST 3 SOLAR YEARS prior to the	
	calendar year of publication of the call (excluding the degree diploma, which will be	
	assessed even if previous) will be assessed and deemed congruent with the research	
	topics of the PhD course and include:	
	1) Master's degree or four-year degree (old system) or qualification deemed equivalent;	
	(ine thesis will be evaluated;	
	2) Scientific publications, consistent with the themes of the doctorate:	
	- DOOKS;	
	- essays in scientific journals (band A of B in the AN VOR classification),	
	- essays in conective volumes	
	- short essays, historical-critical factsneets.	
	Degrees obtained following the completion of specialization and / or specialization and	
	- Degrees obtained following the completion of specialization and / of specialization and / or advanced training courses. Masters in subjects related to the research courses of the	
	PhD course.	
	PhD Dinlows:	
	- Second degree in subjects related to the research courses of the PhD courses	
	Scholarships Awards Fallowships:	
	- Research activity carried out at scientific institutions.	
	- Didactic activity carried out at university institutions.	
	- Curricular study experiences abroad	
	- Internshins traineeshins and professional experiences related to the research courses	
	of the PhD course.	
	- Expert of the subjector member of exam commissions in the university environment	
Exam Syllabus	The interview will concern the presentation and discussion of the research project by the	
	candidate and is aimed at verifying its aptitude for scientific research	
	The evaluation will be based on the following criteria:	
	- argumentative skills in the presentation of the research project. knowledge of the state	
	of the art and general preparation on themes and topics related to the project:	
	- foreign language knowledge	
Research Themes	TITLE: Technical and scientific investigations as primary sources for innovative at	
	criticism	
	The research must incorporate the use of technical and scientific investigations (namely	
	infrared reflectography) as primary sources for innovative art criticism.	
	Possible research topics to be developed:	

	- Workshop practices of Genoese painters: collaborations, division of labour,
	standardisation and dissemination of workshop models (15th and 16th centuries)
	- From connois seurship to technical art history: reconsidering questions of attribution
	and dating in Genoese painting (15th and 16th centuries)
	Partner for the 6-months stage: GeoSpectras.r.l.
Information on references	Reference letters are not required. Reference letters eventually received will not be taken
	into consideration for the final score.
Foreign Languages	English, French, German and Spanish
Further Information	Contact: Prof. Maria Clelia Galassi
	Email: mcgalassi@lettere.unige.it

Curriculum: ARCHEOLOGY (CODE 8947)

Coordinator: Francesco Cassata			
Department of Antiquities, Philosophy and History – DAFIST			
Places: 1 – Grants: 1	Places: 1 – Grants: 1		
The annual gross amount of	the grant, including social security expenses to be paid by the recipient, is \notin 15.343,28.		
A research period in compan	y (minimum 6 months) in Italy or abroad is expected		
Comparative assessment	QUALIFICATIONS/PUBLICATIONS AND INTERVIEW		
procedure			
Interview	Date, hour and how the interview will be carried out will be posted by 11.11.2021 on		
	the web page https://unige.it/usg/it/dottorati-di-ricerca		
Further information on	Besides the qualifications/publications requested in the public notice exam, candidates		
how to present	are requested to submit by means of the online procedure together with their		
qualifications/publications	applications:		
	a) the four-year degree thesis, or specialist, or II level degree thesis (in pdf format) which		
	will be evaluated;		
	b) any publications (in pdf format), which will be evaluated;		
	c) a brief description of the research project proposed by the candidate (maximum		
	30,000 strokes plus an annotated bibliography), which will be evaluated.		
	The project must be organized according to the following points: 1) Objectives; 2)		
	Sources and state of the art; 3) Importance for the advancement of knowledge; 4)		
	Proposed methodology; 5) A developmental work plan.		
	CVs, titles, theses, publications and research projects must be presented in pdf format,		
	attached to the application.		
	Only the titles and publications relating to the LAST 3 SOLAR YEARS prior to the		
	calendar year of publication of the call (excluding the degree diploma, which will be		
	assessed even if previous) will be assessed and deemed congruent with the research		
	topics of the PhD course and include:		
	1) Master's degree or four-year degree (old system) or qualification deemed equivalent;		
	the thesis will be evaluated;		
	2) Scientific publications, consistent with the themes of the doctorate:		
	- books;		
	- essays in scientific journals (band A or B in the ANVUR classification);		
	- essays in collective volumes		
	- short es says, historical-critical factsheets.		
	3) Others:		
	- Degrees obtained following the completion of specialization and / or specialization and		
	/ or advanced training courses, Masters in subjects related to the research courses of the		
	PhDcourse;		
	- PhD Diploma;		
	- Second degree in subjects related to the research courses of the PhD course;		
	- Scholarships, Awards, Fellowships;		
	- Research activity carried out at scientific institutions;		
	- Didactic activity carried out at university institutions;		
	- Curricular study experiences abroad;		
	- Internships, traineeships and professional experiences related to the research courses		
	of the PhD course;		
	- Expert of the subjector member of exam commissions in the university environment.		
Exam Syllabus	I ne interview will concern the presentation and discussion of the research project by the		
	candidate and is aimed at verifying its aptitude for scientific research		
	I ne evaluation will be based on the following criteria:		
	- argumentative skills in the presentation of the research project, knowledge of the state		
	forming longuage line wild dec		
	- roreign language knowledge		
Research Themes	Archaeological analysis of anthropogenic landscape modifications as consequences of		
	settlements and mining activities, through the application of standardized methodologies		
	and innovative diagnostics.		
	I he goal of the project is focused on the detection of the permanent anthropogenic		
	modifications found on a given territory, which have been produced by existing or		
	abandoned settlements and by ancient activities related to quarries and mines. These		

	modifications may have led to important changes to the morphology and hydrography
	of an area, with significant long-lasting impacts on the stability of the slopes, on
	possible erosional and colluvial phenomena, as well as on bottom valleys shaping. The
	study will essentially make use of archaeological sources with the aid of geomatic and
	LIDAR-Drone survey technologies, allowing the recognition of anomalies and
	evidence to be subsequently verified by field-works. The demanded chronological
	period must be comprised between recent Prehistory (4th millennium BC) and 16 th
	century AD. The goal of the study will be to analyse the ancient anthropogenic
	behaviour having significant impacts and permanent effects on the territories and their
	ecosystems, this will allow the making of predictive models aimed at understanding
	the risk inherent in the environmental transformations following aggressive actions
	the fisk interent in the environmental transformations following aggressive actions
	due to settlements and landscape modifications.
	The partner identified for the foreseen sixmonths of the PhD stage is "LIDAR Italia",
	based in Genoa.
Information on references	Reference letters are not required. Reference letters eventually received will not be taken
	into consideration for the final score.
Foreign Languages	English, French, German and Spanish
Further Information	Contact: Prof. Fabrizio Benente
	Email: fabrizio.benente@unige.it

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Coordinator: Anna Franca Sciomachen	
Department of Economics (DIEC)
Places: 2 - Grants: 2	
The annual gross amount of	the grant, including social security expenses to be paid by the recipient, is $\notin 15.343,28$.
A research period in compan	y (minimum 6 months) in Italy or abroad 18 expected
Comparative assessment	Qualification and interview
Interview	Data hour and how the interview will be corried out will be posted by 11.11.2021 on
Interview	Date, nour and now the interview will be carried out will be posted by 11.11.2021 on the web page https://upige.it/usg/it/dottorati.di.ricerca
Further information on	In the curriculum it is important to highlight as they will be used as evaluation
how to present	narameters the following senects: publications (e.g. International Journals International
augustications/nublications	Conferences Chapters of books) grade of Bsc and Msc degree (or equivalent title)
quantications/ publications	work experience and skills acquired
	The research project should address GREEN is sues to be approached with the Strategic
	Engineering approach as described in Research Themes.
	The research project, which should not exceed 10 pages, should identify the motivation,
	methodology, research objectives, and a preliminary state of the art. The proposed
	research project will constitute the research topic of the doctoral dissertation.
	Since the following aspects will be used as evaluation parameters, it is also important to
	highlight in the presentation of the research project: relevance to the research themes
	that appear in the call, Originality, Method of execution, Feasibility, Clarity of
	exposition.
Exam Syllabus	In the interview the committee will verify the competence of the candidate with
	reference to the research themes pertaining to the PhD in Strategic Engineering and the
	methodological ability to deal with research problems. The interview will also focus on the thermos of the research project related to the research to pice listed helow, presented
	by the candidate
Besearch Themes	The research topics are closely related to the following themes: access tem conservation
Research menes	biodiversity impacts of climate change reduction promoting sustainable development
	These GREEN themes will be addressed through the Strategic Engineering approach.
	Strategic Engineering (SE) is a new field of research that focuses on how to effectively
	use the most up-to-date techniques in Simulation, Optimization, Data Processing and
	Artificial Intelligence in decision making with the aim of analyzing complex systems in
	in view of the need to ensure environmental, social and economic sustainability.
	In the SE field there is a great ferment to respond to the demand to develop GREEN
	solutions that can be competitive on the market and effective. In this context there are
	multiple initiatives, from the classic approach of energy saving or waste and cost
	containment to a global vision that actually considers how to rethink production or
	logistics processes (among many others) in this perspective.
	consider not only the individual component of the system but also the interaction
	between all internal subsystems and between them and the external environment and
	other related elements, in order to develop viable and robust solutions that are able to
	sustain themselves effectively.
	PhD students will develop models and experiments building systems employing Big
	Data analytics, Agent Based stochastic discrete events Simulators integrated with
	optimization systems employing Machine Learning, Fuzzy Logic & Genetic
	Algorithms, Crowdsourcing. The goal will be to change the way we think about, design,
	restructure and manage plants, processes, logistics and transportation for the green
	ITANSILION. DhD students will be able to develop research on CREEN issues in a network involving
	foreign universities consortium in the international PhD in SE Moreover PhD students
	will be in a close contact with companies having interests and skills in innovative sectors
	such as: zero impact manufacturing, energy sector, decision making and risk
	management in ports and strategic assets on the sea and coast, water management, waste
	treatment and circular economy.
	The goal is to enhance the human capital that will be employed in the PhD program to
	encourage the spread of an approach towards innovation and GREEN and to strengthen
	the exchange between the world of research and the world of production by creating a
	synergy between research and partner companies.
	More details on the specific topics with the indication of the teacher of reference at the
	following address: www.simulationteam.com/strategos/phd.

Information on references	Applicants should choose no less than one and no more than three referees to support the application. These referees must be university professors or experts in the field. The referees must send the letters of reference, by the date indicated for the evaluation of qualifications, to the Coordinator of the PhD course at: sciomach@economia.unige.it In the application form, candidates must indicate the name, position and place of employment of the reference persons they have chosen. The content of the letters of reference must clearly show the candidate's aptitude for
Foreign I anguages	English
Further Information	Ear further information places contact by amail the Members of the DhD program
	Committee: Agostino Bruzzone (agostino @itim.unige.it) Elvezia Cepolina (elvezia.maria.cepolina@unige.it) Anna Sciomachen (sciomach@economia.unige.it)