FINANZIATO DALL'UNIONE EUROPEA - NEXT GENERATION EU					
	ALLEGATO 1 (SCHEDA INFORMATIVA) ***ANNEX1 (INFORMATION SHEET)***				
DOTTORATO DI RICERCA - ***PH.D. COURSE***	INGEGNERIA DEI SISTEMI, ENERGETICA, INFORMATICA E DELLE TELECOMUNICAZIONI -*SYSTEMS, ENERGY, COMPUTER AND TELECOMMUNICATIONS ENGINEERING*				
CICLO - ***CYCLE***	39°				
COORDINATORE - ***COORDINATOR***	PROF. PAOLO ARENA				
DURATA - ***DURATION***	TRE (3) ANNI - THREE (3) YEARS				
DIPARTIMENTO DI AFFERENZA - ***DEPARTMENT***	DIPARTIMENTO DI INGEGNERIA ELETTRICA, ELETTRONICA E INFORMATICA - *DEPARTMENT OF ELECTRIC, ELECTRONIC AND COMPUTER ENGINEERING*				
SITO WEB DEL DOTTORATO - ***PH.D. WEBSITE***	https://www.diee.unict.it/it/content/dottorato-di-ricerca				
MODALITA' DI SELEZIONE DEI CANDIDATI	VALUTAZIONE DEI TITOLI E PROVA ORALE				
CANDIDATES SELECTION PROCEDURES	*EVALUATION OF QUALIFICATIONS AND ORAL EXAMINATION*				
DATA DELLA PROVA ORALE	06/07/2023				
ORAL EXAMINATION DATE	July 6th 2023				
ORARIO DELLA PROVA ORALE	09.00				
ORAL EXAMINATION TIME	9 am (Italian time)				
LUOGO DELLA PROVA ORALE	DIEEI	**I CANDIDATI IMPOSSIBILITATI A SVOLGERE LA PROVA ORALE IN PRESENZA POTRANNO SVOLGERLA IN MODALITA' REMOTO PREVIA COMUNICAZIONE EMAIL AL COORDINATORE ENTRO DUE SETTIMANE PRIMA DELLA PROVA**				
PLACE OF THE ORAL EXAMINATION	DIEEI	***CANDIDATES WHO ARE UNABLE TO CARRY OUT THE ORAL EXAMINATION IN PERSON CAN CARRY IT OUT REMOTELY PROVIDED EMAIL COMUNICATION TO THE COORDINATOR WITHIN TWO WEEKS BEFORE THE ORAL EXAMINATION***				
LINGUA DELLA PROVA ORALE	Italiano o inglese				
LANGUAGE OF THE ORAL EXAMINATION					
POSTI DISPONIBILI	***AVAILABLE PLACES***				
ENTE/PROGRAMMA FINANZIATORE	***FUNDING INSTITUTION OR PROGRAM***	**TEMA DI RICERCA E COMPETENZE COLLEGATI ALLA BORSA**	**RESEARCH TOPIC AND SKILLS RELATED TO THE SCHOLARSHIP**	**INFORMAZIONI AGGIUNTIVE**	**ADDITIONAL INFORMATION**
PNRR - SAMOTHRACE 1 - SPOKE: 1	*NRRP - SAMOTHRACE 1 - SPOKE 1*	**Architetture di Digital Twin per la gestione online della rete grid.** Titolo preferenziale: Laurea magistrali in Ingegneria delle Telecomunicazioni, Informatica, Elettronica, Elettrica e dell'Automazione. Laurea in magistrale Informatica	**Digital Twin Architectures for on line management of the grid network.** Preferred qualification: Master degrees in Telecommunications, Computer Science, Electronics, Electrical and Automation Engineering. Master Degree in Computer Science		
PNRR - SAMOTHRACE 2 - SPOKE: 1	*NRRP - SAMOTHRACE 1 - SPOKE 1*	Studio e caratterizzazione metrologica di trasduttori innovativi su scala micro-nanometrica per harvesting e sensing	Study and metrological characterization of innovative micro-nanometer scale transducers for harvesting and sensing		
PNRR - SAMOTHRACE 3 - SPOKE: 1	NRRP - SAMOTHRACE 2 - SPOKE 1	Studio e sviluppo di modelli numerici in grado di simulare l'effetto combinato di flussi termici all'interno dei moduli di potenza e soluzioni di tipo dissipativo	Study and development of numerical models able to simulate the combined affect of thermal fluxes within power modules and solutions of dissinative type	3 mesi estero	
PNRR - SAMOTHRACE 4 - SPOKE 1	*NRRP - SAMOTHRACE 1 - SPOKE 1*	Circuiti a bassa tensione per smart every thing	low-voltage circuits for smart every things		
PNRR - SAMOTHRACE 5 - SPOKE 1	*NRRP - SAMOTHRACE 2 - SPOKE 1*	Circuiti integrati a bassa tensione analogici e digitali	low-voltage analog and digital circuits CMOS IC		
PNRR - SAMOTHRACE 6 - SPOKE 1	*NRRP - SAMOTHRACE 3 - SPOKE 1*	*Circuiti integrati per smart mobility*	*Integrated circuits for smart mobility*		
PNRR - SAMOTHRACE 7 - SPOKE 1	*NRRP - SAMOTHRACE 4 - SPOKE 1*	Interfaccia ad isolamento galvanicoin sistemi di potenza switching per automotive	Galvanic isolation interface for automotive power switching systems		
PNRR - SAMOTHRACE 8 - SPOKE: 1	*NRRP - SAMOTHRACE 8 - SPOKE 1*		Innovative sensors for Cultural Heritage Applications		Spoke 1 WP6 Cultural Heritage Task 2 Conservation and artifacts
PNRR - National Centre for HPC, Big Data and Quantum Computing 1 : SPOKE: 10	*NRRP - National Centre for HPC, Big Data and Quantum Computing 1 - SPOKE: 10*	Elettronica criogenica integrata per la catena di controllo hardware di dispositivi quantistici	Integrated cryogenic electronics for the hardware control chain of quantum devices	3 mesi estero	3 months abroad
PNRR - National Centre for HPC, Big Data and Quantum Computing 1 : SPOKE: 1	*NRRP - National Centre for HPC, Big Data and Quantum Computing 1 - SPOKE: 1 - Future HPC*		Design Methodologies for Domain Specific Architectures The skills relevant to the *scholership* involve a range of techniques, principles, and processes for designing and optimizing computer architectures that are tailored to specific applications or workloads. The primary focus will be on the domain of deep learning applications.		The anticipated duration of the stay abroad is three months
PNRR - NQSTI National Quantum Science and Technology Institute 1 - SPOKE 7	*NRRP -NQSTI National Quantum Science and Technology Institute 1 - SPOKE: 7*	Sistemi di sensing Quantum-based. Laurea magistrale in ingegneria o fisica	Quantum-based sensing systems. Master Deree in Engineering or Physics		
PNRR - FAIR Future Artificial Intelligence Research 1 - SPOKE : 10	*NRRP - FAIR Future Artificial Intelligence Research 1 - SPOKE : 10*		**Interactive anthropomorphic robots for social learning**. The research focuses on developing components of an open source cognitive architecture that are devoted to enhance the interactive capabilities of an anthropomorphic robot in the context of social learning and task coordination (with humans and possibly other robots), by leveraging on *expressive* modalities to support the transition from *conversation* to *dialogue* and engage in sustained knowledge co-construction processes. Preferred degrees are M.S. in Computer Engineering (Ingegneria informatica) or Computer Science (Informatica) or Digital Humanities (Scienze del Testo per le Professioni Digitali) with curriculum including courses on Artificial Intelligence/Machine learning, Ontologies, Python programming. Experience involving the use of large language models, for text and speech generation, creation of targeted datasets for fine-tuning, state of the art learning approaches (self-supervised, meta, continual learning, augmented prompting) will be considered an asset.		A period of 3 months in a foreign Research Institution is required.
PNRR - FAIR Future Artificial Intelligence Research 1 - SPOKE : 10	*NRRP - FAIR Future Artificial Intelligence Research 1 - SPOKE : 10*		**Ai-based robot navigation.** The research activities will be oriented to the development of AI algorithms applied to robotic architectures with the aim to optimize robot performance in the real environment. Primary importance will be devoted to scene understanding and decision making in front of potentially conflicting scenarios, to optimize visually guided navigation tasks. The strategies developed will be demonstrated through pilot and use cases in simulations and in real experiments. The required competencies are in applications of robotics and in the adoption of AI techniques for robotics.		
PNRR - FAIR Future Artificial Intelligence Research 3 - SPOKE : 10	NRRP - FAIR Future Artificial Intelligence Research 3 - *SPOKE : 10*		**Geometric Deep Learning for Brain Network Analysis.** The research focuses on creating a network model of the human brain starting from functional and structural data and on studying it by using geometric deep learning tools. Preferred degrees are M.S. in Computer Engineering (Ingegneria informatica) or Computer Science (Informatica) with curriculum including knowledge on Artificial Intelligence/Machine learning, and Python programming. Experience involving the use of machine learning models for for learning on graphs will be considered an asset.		
PNRR - RESTART "Research and innovation on future telecommunications system and networks, to make Italy more smart" 1 – SPOKE: 6	*NRRP - RESTART "Research and innovation on future telecommunications system and networks, to make Italy more smart" 1 – SPOKE: 6*	**Disruptive architectures and open platforms for network innovation:** Requisiti (preferenziali, ma non obbligatori): Laurea Magistrale in Ingegneria delle Telecomunicazioni, Ingegneria Informatica, Ingegneria dell'Automazione, Ingegneria Elettronica (Master Degree in Telecommunication Engineering, or Computer Engineering, or Automation Engineering and Control of Complex Systems, or Electronic Engineering); Laurea Magistrale in Informatica; Laurea Magistrale in Matematica; Laurea Magistrale in Fisica; Laurea equipollente ai suddetti titolo di studio.	**Disruptive architectures and open platforms for network innovation -** Requirements (preferred, though not mandatory): Master Degree in Telecommunication Engineering, or Computer Engineering, or Automation Engineering and Control of Complex Systems, or Electronic Engineering; Master Degree in Computer Science; Master Degree in Mathematics; Master Degree in Physics; Degree equivalent to all above.		
PNRR - RESTART "Research and innovation on future telecommunications system and networks, to make Italy more smart" 2- SPOKE: 6	*NRRP - RESTART "Research and innovation on future telecommunications system and networks, to make Italy more smart" 2 – SPOKE: 6*	**Underwater sensor networks** Requisiti (preferenziali, ma non obbligatori): Laurea Magistrale in Ingegneria delle Telecomunicazioni, Ingegneria Informatica, Ingegneria dell'Automazione, Ingegneria Elettronica (Master Degree in Telecommunication Engineering, or Computer Engineering, or Automation Engineering and Control of Complex Systems, or Electronic Engineering); Laurea Magistrale in Informatica; Laurea Magistrale in Matematica; Laurea Magistrale in Fisica; Laurea equipollente ai suddetti titolo di studio.	**Underwater sensor networks -** Requirements (preferred, though not mandatory): Master Degree in Telecommunication Engineering, or Computer Engineering, or Automation Engineering and Control of Complex Systems, or Electronic Engineering; Master Degree in Computer Science; Master Degree in Mathematics; Master Degree in Physics; Degree equivalent to all above.		
PNRR - RESTART "Research and innovation on future telecommunications system and networks, to make Italy more smart" 3- SPOKE: 4	*NRRP - RESTART "Research and innovation on future telecommunications system and networks, to make Italy more smart" 3 – SPOKE: 4*	**Programmable networks** - Requisiti (preferenziali, ma non obbligatori): Laurea Magistrale in Ingegneria delle Telecomunicazioni, Ingegneria Informatica, Ingegneria dell'Automazione, Ingegneria Elettronica (Master Degree in Telecommunication Engineering, or Computer Engineering, or Automation Engineering and Control of Complex Systems, or Electronic Engineering); Laurea Magistrale in Informatica; Laurea Magistrale in Matematica; Laurea Magistrale in Fisica; Laurea equipollente ai suddetti titolo di studio.	**Programmable networks -** Requirements (preferred, though not mandatory): Master Degree in Telecommunication Engineering, or Computer Engineering, or Automation Engineering and Control of Complex Systems, or Electronic Engineering; Master Degree in Computer Science; Master Degree in Mathematics; Master Degree in Physics; Degree equivalent to all above.		
PNRR - RESTART "Research and innovation on future telecommunications system and networks, to make Italy more smart" 4- SPOKE: 4	*NRRP - RESTART "Research and innovation on future telecommunications system and networks, to make Italy more smart" 4 – SPOKE: 4*	**Programmable networks** - Requisiti (preferenziali, ma non obbligatori): Laurea Magistrale in Ingegneria delle Telecomunicazioni, Ingegneria Informatica, Ingegneria dell'Automazione, Ingegneria Elettronica (Master Degree in Telecommunication Engineering, or Computer Engineering, or Automation Engineering and Control of Complex Systems, or Electronic Engineering); Laurea Magistrale in Informatica; Laurea Magistrale in Matematica; Laurea Magistrale in Fisica; Laurea equipollente ai suddetti titolo di studio.	**Programmable networks -** Requirements (preferred, though not mandatory): Master Degree in Telecommunication Engineering, or Computer Engineering, or Automation Engineering and Control of Complex Systems, or Electronic Engineering; Master Degree in Computer Science; Master Degree in Mathematics; Master Degree in Physics; Degree equivalent to all above.		
PNRR - RESTART "Research and innovation on future telecommunications system and networks, to make Italy more smart" 5- SPOKE: 5	*NRRP - RESTART "Research and innovation on future telecommunications system and networks, to make Italy more smart" 5 – SPOKE: 5*	**Industrial and Digital Transition Networks** - Requisiti (preferenziali, ma non obbligatori): Laurea Magistrale in Ingegneria delle Telecomunicazioni, Ingegneria Informatica, Ingegneria dell'Automazione, Ingegneria Elettronica (Master Degree in Telecommunication Engineering, or Computer Engineering, or Automation Engineering and Control of Complex Systems, or Electronic Engineering); Laurea Magistrale in Informatica; Laurea Magistrale in Matematica; Laurea Magistrale in Fisica; Laurea equipollente ai suddetti titolo di studio.	**Industrial and Digital Transition Networks** - Requirements (preferred, though not mandatory): Master Degree in Telecommunication Engineering, or Computer Engineering, or Automation Engineering and Control of Complex Systems, or Electronic Engineering; Master Degree in Computer Science; Master Degree in Mathematics; Master Degree in Physics; Degree equivalent to all above.		
PNRR - RESTART "Research and innovation on future telecommunications system and networks, to make Italy more smart" 6- SPOKE: 5	*NRRP - RESTART "Research and innovation on future telecommunications system and networks, to make Italy more smart" 6 – SPOKE: 5*	**Industrial and Digital Transition Networks** - Requisiti (preferenziali, ma non obbligatori): Laurea Magistrale in Ingegneria delle Telecomunicazioni, Ingegneria Informatica, Ingegneria dell'Automazione, Ingegneria Elettronica (Master Degree in Telecommunication Engineering, or Computer Engineering, or Automation Engineering and Control of Complex Systems, or Electronic Engineering); Laurea Magistrale in Informatica; Laurea Magistrale in Matematica; Laurea Magistrale in Fisica; Laurea equipollente ai suddetti titolo di studio.	**Industrial and Digital Transition Networks** - Requirements (preferred, though not mandatory): Master Degree in Telecommunication Engineering, or Computer Engineering, or Automation Engineering and Control of Complex Systems, or Electronic Engineering; Master Degree in Computer Science; Master Degree in Mathematics; Master Degree in Physics; Degree equivalent to all above.		
PNRR - RESTART "Research and innovation on future telecommunications system and networks, to make Italy more smart" 7- SPOKE: 3	*NRRP - RESTART "Research and innovation on future telecommunications system and networks, to make Italy more smart" 7 – SPOKE: 3*	**Antennae and millimiter wave technologies** - Requisiti (preferenziali, ma non obbligatori): Laurea Magistrale in Ingegneria delle Telecomunicazioni, Ingegneria Informatica, Ingegneria dell'Automazione, Ingegneria Elettronica (Master Degree in Telecommunication Engineering, or Computer Engineering, or Automation Engineering and Control of Complex Systems, or Electronic Engineering); Laurea Magistrale in Informatica; Laurea Magistrale in Matematica; Laurea Magistrale in Fisica; Laurea equipollente ai suddetti titolo di studio.	**Antennae and millimiter wave technologies** - Requirements (preferred, though not mandatory): Master Degree in Telecommunication Engineering, or Computer Engineering, or Automation Engineering and Control of Complex Systems, or Electronic Engineering; Master Degree in Computer Science; Master Degree in Mathematics; Master Degree in Physics; Degree equivalent to all above.		
PNRR - RESTART "Research and innovation on future telecommunications system and networks, to make Italy more smart" 8- SPOKE: 3	*NRRP - RESTART "Research and innovation on future telecommunications system and networks, to make Italy more smart" 8 – SPOKE: 3*	**Antennae and millimiter wave technologies** - Requisiti (preferenziali, ma non obbligatori): Laurea Magistrale in Ingegneria delle Telecomunicazioni, Ingegneria Informatica, Ingegneria dell'Automazione, Ingegneria Elettronica (Master Degree in Telecommunication Engineering, or Computer Engineering, or Automation Engineering and Control of Complex Systems, or Electronic Engineering); Laurea Magistrale in Informatica; Laurea Magistrale in Matematica; Laurea Magistrale in Fisica; Laurea equipollente ai suddetti titolo di studio.	**Antennae and millimiter wave technologies** - Requirements (preferred, though not mandatory): Master Degree in Telecommunication Engineering, or Computer Engineering, or Automation Engineering and Control of Complex Systems, or Electronic Engineering; Master Degree in Computer Science; Master Degree in Mathematics; Master Degree in Physics; Degree equivalent to all above.		
PNRR - RESTART "Research and innovation on future telecommunications system and networks, to make Italy more smart" 9- SPOKE: 7	*NRRP - RESTART "Research and innovation on future telecommunications system and networks, to make Italy more smart" 9 – SPOKE: 7*	**Integrated sensing** - Requisiti (preferenziali, ma non obbligatori): Laurea Magistrale in Ingegneria delle Telecomunicazioni, Ingegneria Informatica, Ingegneria dell'Automazione, Ingegneria Elettronica (Master Degree in Telecommunication Engineering, or Computer Engineering, or Automation Engineering and Control of Complex Systems, or Electronic Engineering); Laurea Magistrale in Informatica; Laurea Magistrale in Matematica; Laurea Magistrale in Fisica; Laurea equipollente ai suddetti titolo di studio.	**Integrated sensing** -Requirements (preferred, though not mandatory): Master Degree in Telecommunication Engineering, or Computer Engineering, or Automation Engineering and Control of Complex Systems, or Electronic Engineering; Master Degree in Computer Science; Master Degree in Mathematics; Master Degree in Physics; Degree equivalent to all above.		
PNRR - RESTART "Research and innovation on future telecommunications system and networks, to make Italy more smart" 10- SPOKE: 7	*NRRP - RESTART "Research and innovation on future telecommunications system and networks, to make Italy more smart" 10 – SPOKE: 7*	**Integrated sensing** - Requisiti (preferenziali, ma non obbligatori): Laurea Magistrale in Ingegneria delle Telecomunicazioni, Ingegneria Informatica, Ingegneria dell'Automazione, Ingegneria Elettronica (Master Degree in Telecommunication Engineering, or Computer Engineering, or Automation Engineering and Control of Complex Systems, or Electronic Engineering); Laurea Magistrale in Informatica; Laurea Magistrale in Matematica; Laurea Magistrale in Fisica; Laurea equipollente ai suddetti titolo di studio.	**Integrated sensing** - Requirements (preferred, though not mandatory): Master Degree in Telecommunication Engineering, or Computer Engineering, or Automation Engineering and Control of Complex Systems, or Electronic Engineering; Master Degree in Computer Science; Master Degree in Mathematics; Master Degree in Physics; Degree equivalent to all above.		
PNRR - RESTART "Research and innovation on future telecommunications system and networks, to make Italy more smart" 11- SPOKE: 7	*NRRP - RESTART "Research and innovation on future telecommunications system and networks, to make Italy more smart" 11 – SPOKE: 7*	**Integrated sensing** Requisiti (preferenziali, ma non obbligatori): Laurea Magistrale in Ingegneria delle Telecomunicazioni, Ingegneria Informatica, Ingegneria dell'Automazione, Ingegneria Elettronica (Master Degree in Telecommunication Engineering, or Computer Engineering, or Automation Engineering and Control of Complex Systems, or Electronic Engineering); Laurea Magistrale in Informatica; Laurea Magistrale in Matematica; Laurea Magistrale in Fisica; Laurea equipollente ai suddetti titolo di studio.	**Integrated sensing - Requirements (preferred, though not mandatory): Master Degree in Telecommunication Engineering, or Computer Engineering, or Automation Engineering and Control of Complex Systems, or Electronic Engineering; Master Degree in Computer Science; Master Degree in Mathematics; Master Degree in Physics; Degree equivalent to all above.**		
PNRR - CHANGES Cultural Heritage Active Innovation for Sustainable Society - SPOKE: 5	*PNRR - CHANGES Cultural Heritage Active Innovation for Sustainable Society - SPOKE: 5*		Sensor and smart measurement systems for cultural heritage monitoring	3 mesi all'estero	
PNRR - D.M. 118/2023, Inv. 4.1 Ricerca PNRR	*NRRP - Ministerial Decree n. 118/2023 - Inv. 4.1 Research NRRP*	Tematiche connesse sui seguenti ambiti di interesse del PNRR e coerenti con le linee di ricerca del dottorato.: Digitalizzazione, innovazione, competitività, rivoluzione verde, infrastrutture per mobilità sostenibile,	Themes related to the following frameworks and within the scope of both PNRR and the main areas of the PhD course: Digitalization, innovation, competitiveness, green revolution, infrastructures for a sustainable mobility	6 months	
PNRR - D.M. 118/2023, Inv. 4.1 Ricerca PNRR	*NRRP - Ministerial Decree n. 118/2023 - Inv. 4.1 Research NRRP*	Tematiche connesse sui seguenti ambiti di interesse del PNRR e coerenti con le linee di ricerca del dottorato.: Digitalizzazione, innovazione, competitività, rivoluzione verde, infrastrutture per mobilità sostenibile,	Themes related to the following frameworks and within the scope of both PNRR and the main areas of the PhD course: Digitalization, innovation, competitiveness, green revolution, infrastructures for a sustainable mobility	6 months	
PNRR - D.M. 118/2023, Inv. 4.1 Ricerca PNRR	*NRRP - Ministerial Decree n. 118/2023 - Inv. 4.1 Research NRRP*	Tematiche connesse sui seguenti ambiti di interesse del PNRR e coerenti con le linee di ricerca del dottorato.: Digitalizzazione, innovazione, competitività, rivoluzione verde, infrastrutture per mobilità sostenibile,	Themes related to the following frameworks and within the scope of both PNRR and the main areas of the PhD course: Digitalization, innovation, competitiveness, green revolution, infrastructures for a sustainable mobility	6 months	
PNRR - D.M. 117/2023, Inv. 3.3 Ricerca PNRR in collaborazione con ST LAB Srl	*NRRP - Ministerial Decree n. 117/2023 - Inv. 3.3 in collaboration with ST LAB Srl*	Progetto di ricerca sullo sviluppo di sistemi di controllo avanzati per la stabilizzazione di fasci ionizzanti	Research project on the development of advanced control systems for the stabilization of ionising beams	6 mesi in impresa e 9 mesi estero	
PNRR - D.M. 117/2023, Inv. 3.3 Ricerca PNRR in collaborazione con FERRARI	NRRP - Ministerial Decree n. 117/2023 - Inv. 3.3 in collaboration with FERRARI		Design and development of advanced mechanical systems through CAD/CAE methods and experimental verification. The analysis regards innovative trims components, with special focus on the new seat design in all the aspects (metal/carbon structures design, foam definition, comfort, kinematics, safety tests ….). This study will be done using many virtual instruments : cad, multibody, FEM and GD&T.	mesi in azienda: 18 mesi estero: 6	
PNRR - D.M. 117/2023, Inv. 3.3 Ricerca PNRR in collaborazione con ENI S.p.A.	*NRRP - Ministerial Decree n. 117/2023 - Inv. 3.3 in collaboration with ENI S.p.A.*	Sviluppo di sistemi Integrated Control & Safety Systems (ICSS) e sistemi Emergency Shut Down (ESD) per impianti a fusione per la produzione di energia. Requisiti: Laurea Magistrale in Ingegneria dell'Automazione, Elettronica o Informatica.	Design and development of Integrated Control & Safety Systems (ICSS) and Emergency Shut Down systems (ESD) for energy production fusion plants. Skills: Laurea Magistrale in Automation Engineering, Electronics Engineering, or Computer Science Engineering.	6 months in the company and 6 months abroad	
PNRR - D.M. 117/2023, Inv. 3.3 Ricerca PNRR in collaborazione con ST Microelectronics Srl	*NRRP - Ministerial Decree n. 117/2023 - Inv. 3.3 in collaboration with ST Microelectronics Srl*		Advanced and integrated CAD-CAE-AI techniques for mechanical and thermal optimization of power electronics devices to improve reliability performances	6 mesi in impresa e 6 mesi estero (minimo 6; massimo 12)	
PNRR - D.M. 117/2023, Inv. 3.3 Ricerca PNRR in collaborazione con hypertech Solutions Srl	NRRP - Ministerial Decree n. 117/2023 - Inv. 3.3 in collaboration with Hypertech Solutions Srl	Nuovi approcci per la progettazione meccanica integrata CAD-Multibody-FEM-GD&T di sistemi meccanici	New approaches for the integrated CAD-Multibody-FEM-GD&T mechanical design of mechanical systems	mesi in azienda: 18 mesi estero: 6	
Istituto Nazionale di Geofisica e Vulcanologia (INGV)	National Institute of Geophysics and Volcanology (INGV)	Progetto di ricerca sullo sviluppo di un sistema innovativo che utilizzi le potenzialità dell'AI (Artificial Intelligence) per l'analisi di dati acquisiti con tecniche di misura DFOS (Distributed Fiber Optic Sensing) ai fini del monitoraggio sismico e vulcanico. - Competenze preferenziali: Programmazione matlab/python; tecniche di machine e deep learning; analisi di dati/serie temporali	Research project on the development of an innovative system that uses the potential of AI (Artificial Intelligence) for the analysis of data acquired with DFOS (Distributed Fiber Optic Sensing) measurement techniques for seismic and volcanic monitoring purposes. - Preferential skills: Matlab/pytho programing; machine learning and deep learning knowledge; time series and data analysis competences		
POSTO SENZA BORSA DI STUDIO	PLACE WITHOUT SCHOLARSHIP				

TOTALE POSTI CON BORSA DI STUDIO: 35
TOTALE POSTI SENZA BORSA DI STUDIO: 1

PLACES WITH SCHOLARHSIP, TOTAL: 35
PLACES WITHOUT SCHOLARSHIP, TOTAL: 1