BORSE PER LA PARTECIPAZIONE AL TALENT IMPROVEMENT PROGRAM (TIP) PER STUDENTI DELL'UNIVERSITÀ DEGLI STUDI DI BERGAMO TALENTUOSI A FAVORE DI STUDENTI ISCRITTI AL SECONDO ANNO DELLA LAUREA MAGISTRALE O AL QUINTO ANNO DELLA LAUREA A CICLO UNICO NELL'ANNO ACCADEMICO 2022/2023

ALLEGATO PROGETTI DI RICERCA E CORSI DI DOTTORATO A DISPOSIZIONE PER IL TALENT IMPROVEMENT PROGRAM

PROGETTI DI RICERCA INTERNI

ID Progetto	Dipartimento di riferimento	Docente di riferimento	Gruppo di appartenenza (facoltativo)	Titolo progetto	Descrizione progetto	Opportunità di partecipazione a conferenze	Opportunità di visiting	Progetto in collaborazione con altre università? (Se sì quali?)
9	DCLLS	Federica Burini	Imago Mundi Lab	Terre Alte Experience - Experiential itinerary of sustainable mobility, to discover the knowledge and flavors of the Terre Alte between Bergamo and Brescia (Italian Capital of Culture 2023)	In view of the Bergamo-Brescia Italian capital of culture 2023 event, the intention is to develop an experiential and sustainable mobility itinerary between Bergamo and Brescia that links the two territories via the High Lands and which allows the visitor to discover some hidden treasures to discover some of the excellences of the Orobic valleys to get from west to east to the Upper Sebino Bresciano, to be able to appreciate the traditional knowledge linked to the use of resources through the meeting with the actors of the territory involved in the protection and enhancement of landscapes, places, local resources and products through forms of innovative entrepreneurship	Opportunity to participate in events for the presentation of research results	To be defined	

10	DISA	Daniela Giretti		Interpretation of cone penetration tests in silty soils	The CPTU is one the main in situ investigation tool for defining the ground conditions and for foundation design. Current practise in CPTU interpretation to estimate the in-situ void ratio is to use correlations between cone resistance, effective stress state and relative density for sands and silty soils. However, as these correlations are based on calibration chamber tests on clean silica sands under drained conditions, it is uncertain whether they can be applied for sands with fines and silty materials and for partially drained conditions. Site experiences have shown that when applied to estimate Dr for silty materials, the resulting Dr is too low respect to values measured on undisturbed samples. From the limitations above, the research questions arisen on what is the effect of fine content in sand (plasticity, grain size) on the penetration resistance and what is the effect of partial drainage on the correlation including fines. To answer this questions, the necessity of developing reliable correlations between qc, stress state and void ratio, which takes into account fines content in sand, by running a series of laboratory calibration CPTUs, has come. The TIP project here proposed is aimed at interpreting a large database of calibration CPTUs in silty sands carried out in a geotechnical centrifuge. The results will be interpreted in order to establish a relationship between CPT tip resistance and state parameter, within a critical state framework, following the approach of Been and co-workers (e.g. Been et al.,1986, 1987). Analysis of the calibration data ill then follow a more rigorous approach based on cavity expansion theory, following Shuttle & Jefferies (1998), which provides predictive capability for the CPT once soil properties have been measured in the laboratory.	9th International SUT OSIG Conference “Innovative Geotechnologies for Energy Transition” 12 September, 2023 - 14 September, 2023	NGI, NORWEGIAN GEOTECHNICAL INSTITUTE	No
12	DISA	Chiara Passoni, Alessandra Marini	Tecnica delle Costruzioni - ICAR/09	Project of wooden exoskeletons inspired by the LCT for the integrated and sustainable redevelopmen t of existing buildings	The existing building heritage needs urgent recovery interventions from a seismic, energy and architectural point of view. The construction technology research group has been active for years in the development of exoskeletons for the integrated redevelopment of buildings. Furthermore, in order to achieve the new national and European sustainability objectives, these recovery interventions must be inspired by the principles of Life Cycle Thinking (LCT), in order to ensure disassembly, recyclability/reuse of the elements at the end of their life, damage reduction , etc. The student will have the opportunity to deepen one or more techniques for the construction of wooden exoskeletons for the seismic improvement of existing buildings in reinforced concrete. or masonry. In particular, depending on the student's interest, the study of construction details (e.g. connections or foundations), the role of foundations, the application with reference to a real case study may be deepened.	World Conference on Timber Engineering, 19.-22. June, 2023, Oslo, Norway	To be defined	

14	DIGIU	Anna Lorenzetti		Overcoming conflicts, recognizing the other.	The project intends to propose a reflection around the conception of alternative ways of overcoming conflicts to traditional justice. Placing itself along the trail traced by the Cartabia Reform which envisaged an open catalog of reparative programs, referring to penal mediation, reparative dialogues and any other possible program, the intention is to propose a platform for reflection on the theme.	Participation in: third mission projects; restorative justice workshops at the correctional facility; training activity with the newly established centres; joint activity with the Municipality of Bergamo "Giustizia in comune" and relating to the victim office		Ufficio giustizia riparativa - Caritas Bergamo
15	DIGIU	Francesco Saverio ROMOLO		Scientific evidence in the EU: how to cross national borders.	As part of the RISEN project (https://www.unibg.it/eventi/progetto-risen-indagini-scientifiche-scena-crimine and https://www.risen-h2020.eu) an in-depth analysis of the lo exchange of information relating to traces found at the crime scene between the different organizations involved in the various European countries.The specific objective is to identify the current legal obstacles for easy and efficient cross-border access to evidence.The ultimate aim is to improve and adapt the methods existing training courses and operational procedures and implement data sharing procedures in the context of cross-border investigations.	Possibility to participate in the project activities, interacting with the partners involved, and in the events for the presentation of the research results.	To be defined	University Institute of Research in Police Sciences – University of Alcalá (UAH-IUICP) - SPAGNA.

PROGETTI IN COLLABORAZIONE CON AZIENDE

ID Progetto	Dipartimento di riferimento	Docente di riferimento	Gruppo di appartenenza (facoltativo)	Titolo progetto	Descrizione progetto	Azienda/ente/organizzazione partner	Richieste specifiche da parte dell'azienda/ente/organizzazione (giorni in sede, full time etc.)
23	DLLCS	Federica Burini	CUS - Unibg	Sportumanza	This is an event that will take place from 1 to 4 June 2023, in the context of Bergamo-Brescia, the Italian capital of culture. It is a project conceived by the students of the University of Bergamo who participated in the SPORTOUR Summer School between 2021 and 2022, aimed at promoting knowledge of the pastoral tradition and transhumance through the practice of open-air sports activities in the Bergamo mountain valleys	Confindustria; Fassi Gru, CUS, Confidustria Servizi, Awe Sport	da definire

CORSI DI DOTTORATO APERTI AGLI STUDENTI CHE VERRANNO SELEZIONATI

Dipartimento/i di riferimento	Programma di dottorato	Corso	Periodo di erogazione (mese)	Docente del corso	In presenza o online	Dottorato convenzionato con altre sedi? (Se sì, quali?)
DIGIP	Technology, Innovation and Management	Circular Economy	mag-23	Andrea Genovese	Online	Sì, Università degli Studi di Napoli Federico II
DIGIP	Technology, Innovation and Management	Methods and Tools for sustainability	mag-23	Gianluca D'Urso	Presenza	Sì, Università degli Studi di Napoli Federico II
DIGIP	Technology, Innovation and Management	Applied programming (Matlab + Cenni di Python)	feb/mar-23	Moscato/Casola	Online	Sì, Università degli Studi di Napoli Federico II
DIGIP	Technology, Innovation and Management	From a literature review to a conceptual framework: how to develop research model and hypotheses	mag-23	Centobelli/Esposito/Cerchione	Online	Sì, Università degli Studi di Napoli Federico II
DIGIP	Technology, Innovation and Management	Research topics in Manufacturing and Service Operations Management (M&SOM)	feb-23	Pirola/Sala/Pinto/Gaiardelli/Polenghi	Presenza	Sì, Università degli Studi di Napoli Federico II
DIGIP	Technology, Innovation and Management	METHODS AND TOOLS FOR THE CIRCULAR DESIGN	giu-23	Daniele Landi	Presenza	Sì, Università degli Studi di Napoli Federico II
DISA	Engineering and applied science	Misure termofluidodinamiche	giu-23	Giovanna Barigozzi	Presenza	no
DISA	Engineering and applied science	Influence of additive production technologies on materials properties and advanced characterization techniques	II semestre	Sergio Lorenzi	Presenza	no
DISA	Engineering and applied science	Materiali strutturali sostenibili a basso impatto ambientale, elevate prestazioni e durabilita' per edifici, infrastrutture e reti di distribuzione	giu-23	Luigi Coppola	Presenza	no
DISA	Engineering and applied science	Electronic Instrumentation and Measurements	giu-23	Valerio Re	Presenza	no
DISA	Engineering and applied science	Life Cycle Thinking and Life Cycle Structural Engineering	gen/feb-23	Chiara Passoni	Presenza	no
DISA	Engineering and applied science	Fundamentals of Displacement Based Design	lug-23	Simone labò	Presenza	no
DLLSC	Studi Umanistici Transculturali	Metodi di analisi spaziale, governance territoriale e mapping per lo sviluppo sostenibile dei territori	II semestre	Federica Burini e visiting professors	Presenza	no

Firmato digitalmente da Matteo Giacomo Maria Kalchschmidt
Data: 03.04.2023 14:57:22 CEST