Università di Brescia

ANNEX A - PhDs PROGRAMMES DATA SHEETS
(Alphabetical Order)

ARTIFICIAL INTELLIGENCE IN MEDICINE AND INNOVATION IN CLINICAL RESEARCH AND METHODOLOGY	
Scientific areas	06 Medical Sciences; 05 Biological Sciences; 09 Industrial and Information Engineering; 13 Economic and Statistical Sciences; 01 Mathematical and Informatic Sciences
Macro areas	05/D; 05/H; 06/B; 06/D; 06/E; 06/F; 06/G; 06/I; 06/L; 06/M; 09/D; 09/E; 09/F; 13/A; 01/B
Duration	3 years
Starting date	**April 1st, 2026**
Proponent Structure	Department of Clinical and Experimental Sciences
Coordinator	Prof. Domenico Russo
Curricula	- Artificial Intelligence in Medicine - Regenerative Medicine - Innovation in Clinical Research and Methodology
Admission requirements	LMG/01 Classe delle lauree magistrali in giurisprudenza LM-6 Biologia LM-7 Biotecnologie agrarie LM-8 Biotecnologie industriali LM-9 Biotecnologie mediche, veterinarie e farmaceutiche LM-13 Farmacia e farmacia industriale LM-16 Finanza LM-17 Fisica LM-18 Informatica LM-21 Ingegneria biomedica LM-22 Ingegneria chimica LM-25 Ingegneria dell'automazione LM-26 Ingegneria della sicurezza LM-27 Ingegneria delle telecomunicazioni LM-28 Ingegneria elettrica LM-29 Ingegneria elettronica LM-30 Ingegneria energetica e nucleare LM-32 Ingegneria informatica LM-33 Ingegneria meccanica LM-40 Matematica LM-41 Medicina e chirurgia LM-42 Medicina veterinaria LM-43 Metodologie informatiche per le discipline umanistiche LM-44 Modellistica matematico-fisica per l'ingegneria LM-46 Odontoiatria e protesi dentaria LM-51 Psicologia LM-52 Relazioni internazionali LM-53 Scienza e ingegneria dei materiali LM-54 Scienze chimiche

	LM-55 Scienze cognitive LM-56 Scienze dell'economia LM-60 Scienze della natura LM-61 Scienze della nutrizione umana LM-66 Sicurezza informatica LM-67 Scienze e tecniche delle attività motorie preventive e adattate LM-70 Scienze e tecnologie alimentari LM-71 Scienze e tecnologie della chimica industriale LM-77 Scienze economico-aziendali LM-78 Scienze filosofiche LM-82 Scienze statistiche LM-83 Scienze statistiche attuariali e finanziarie LM-86 Scienze zootecniche e tecnologie animali LM-90 Studi europei LM-91 Tecniche e metodi per la società dell'informazione LM-92 Teorie della comunicazione LM-93 Teorie e metodologie dell'e-learning e della media education LM/SNT1 Scienze infermieristiche e ostetriche LM/SNT2 Scienze riabilitative delle professioni sanitarie LM/SNT3 Scienze delle professioni sanitarie tecniche LM/SNT4 Scienze delle professioni sanitarie della prevenzione A University degree achieved in Italy, such as University Degree (Italian Laurea) achieved pursuant to the Italian academic system prior to Ministerial Decree 509/1999, amended with Ministerial Decree 270/2004; equivalent Advanced Degree (Italian Laurea Specialistica) / Master's Degree (Italian Laurea Magistrale) or any equivalent academic Master Degree achieved from foreign Universities. For PhD admission purposes only, the equivalence between degrees awarded abroad and the Italian degrees will be assessed by the Board of Examiners. The eligibility of the foreign university degree is ascertained by the Board of Examiners of the selection procedure of the PhD Programmes, in compliance with the legislation in force in Italy and in the country where the university degree was awarded, as well as by the Treaties or international agreements on recognition of university degrees for the continuance of studies. **Bachelor's Degrees are not admitted.** Undergraduates can apply for admission, but they must have passed the degree examination by the start date of the PhD Programme activities: these candidates are required to provide the marks of the exams taken during their undergraduate career.
Total number of posts available	**n. 1**: - n. 1 posts benefiting of a scholarship
Posts linked to a research topic (among those already available)	**(CODE C)** **n. 1 ordinary position benefitting of a scholarship financed by the resources of the project DSCS-DIPARTIMENTO_ECCELLENZA_2023-2027**, responsible prof. Ilaria Cavazzana, having a research topic on "*Study of immune biological mechanisms and new therapeutic approaches in the treatment of corneal lesions in primary and secondary Sjögren's syndrome*"

Selection Procedure	
Evaluation of Curriculum Vitae/Publications, etc.	Preliminary, the Board of Examiners evaluates the Curriculum Vitae of the Candidate. The Candidate will be admitted to the qualifications evaluation as a result of the positive relevance assessment between the Curriculum Vitae and the research areas of the PhD Programme. **Evaluation score: 0-20 points as follows**: - Undergraduate University degree final score: 0-10 points or average grade of examinations passed during the course (only for undergraduates who will pass the degree examination by the start date of the PhD Programme activities; - Publications: 0-4 points; - Other qualifications: 0-6 points.
Evaluation of a project proposal	**Evaluation of the research project proposal: 0 - 40 points**. Only candidates who score at least 24 points in the evaluation of their research proposal will be admitted to the interview.
Interview	The interview includes to discuss about the research project proposal that the candidate presents, the candidate's list of publications and qualifications. **The scores granted at the interview: 0 - 40 points** The interview is passed if a candidate achieves a score of at least 20 points. For candidates who do not understand Italian language, the interview will be held in English language. Candidates may be allowed to be interviewed remotely with the use of a video conference application, pursuant to the prescriptions envisaged by Article 9, paragraphs 6 and 7 of the Call for Admissions.
Place and date of the interview	The date (and, if needed, the venue) of the interview will be published at least 10 days in advance on the UNIBS web site https://www.unibs.it/en/node/1078
Contact information of the PhD Programme	Professor Domenico Russo, Department of Clinical and Experimental Sciences, email: domenico.russo@unibs.it
Academic and research PhD activity	https://permalink.unibs.it/phd/iamed/en

CIVIL AND ENVIRONMENTAL ENGINEERING, INTERNATIONAL COOPERATION AND MATHEMATICS	
Scientific areas	01 - Mathematical and Computing Sciences; 02 – Physical Sciences; 04 - Geological Sciences (Scienze della Terra); 06 - Medical Sciences; 07 - Agricultural and Veterinary Sciences; 08a - Civil Engineering; 08b – Architecture; 11a - Historical, Philosophical and Pedagogical Sciences; 13a - Economical and Statistical Sciences.
Macro areas	01/A; 02/A; 04/A; 06/D; 07/D; 07/E; 08/A; 08/B; 08/D; 08/E; 08/F; 11/A; 11/B; 13/D.
Duration	3 years
Starting date	**April 1st, 2026**
Proposing Structure	Department of Civil, Environmental, Architectural Engineering and Mathematics
Coordinator	Prof. Marco Pilotti

Curricula	The research activity concerns specific topics pertaining to the different curricula: Appropriate Methodologies and Techniques for International Development Co-operation (Health track and Technology track) - Mathematical Methods and Models for Engineering - Natural Risks Assessment and Management - Structural Rehabilitation of Historical and Modern Buildings - Technologies and Processes for the Environment and Agriculture - Urban Planning and Mobility
Admission requirements	All University Degrees of the type enlisted below are eligible: A University degree achieved in Italy, such as University Degree (Italian Laurea) achieved pursuant to the Italian academic system prior to Ministerial Decree 509/1999, amended with Ministerial Decree 270/2004; equivalent Advanced Degree (Italian Laurea Specialistica) / Master's Degree (Italian Laurea Magistrale) or any equivalent academic Master Degree achieved from foreign Universities. For PhD admission purposes only, the equivalence between degrees awarded abroad and the Italian degrees will be assessed by the Board of Examiners. The eligibility of the foreign university degree is ascertained by the Board of Examiners of the selection procedure of the PhD Programmes, in compliance with the legislation in force in Italy and in the country where the university degree was awarded, as well as by the Treaties or international agreements on recognition of university degrees for the continuance of studies. **Bachelor's Degrees are not admitted.** Undergraduates can apply for admission, but they must have passed the degree examination by the start date of the PhD Programme activities: these candidates are required to provide the marks of the exams taken during their undergraduate career.
Total number of posts available	**n. 2**, subdivided as follows: - n. 2 posts benefiting of a scholarship
Posts linked to a research topic (among those already available)	**(CODE D)** **n. 1 position benefitting a PhD scholarship financed by the resources of the Dipartimento di Ingegneria Civile, Architettura, Territorio, Ambiente e di Matematica**, responsible prof. Gianni Gilioli, having a research topic on "*Structural and functional analysis of biotic communities in agroecosystems using integrated methodological approaches*" **(CODE E)** **n. 1 position benefitting a PhD scholarship financed by the resources of the Dipartimento di Ingegneria Civile, Architettura, Territorio, Ambiente e di Matematica and by the company Ca' del Bosco S.r.l. Società Agricola**, responsible prof. Gianni Gilioli, having a research topic on "*Quantitative approaches for agroecosystem resilience*"
Selection Procedure	
Evaluation of Curriculum Vitae	**University Degree Thesis: up to 10 points**.

and academic / professional history / Publications, etc.	For candidates pending to graduate, at most 10 points will be assigned, according to the following criterion: (average - 101) +1 being the average of the candidate's votes converted into hundredths **Further qualifications: up to 10 points**.
Presentation of a project proposal	The application form must include the presentation of a research project within the following research topic: With reference to the scholarship (**CODE D)**, having the research topic on "*Structural and functional analysis of biotic communities in agroecosystems using integrated methodological approaches*," the application must include a report demonstrating the candidate's ability to develop a research project relevant to the topic. Specifically, the candidate will be asked to develop a research topic focused on the study of biotic communities in agroecosystems and the analysis of their composition, structure, and functional characteristics in relation to environmental factors and agricultural management practices. The project must demonstrate knowledge of the theoretical and scientific framework for the study of biotic communities in agroecosystems and their role in providing ecosystem services. The candidate must be able to clearly and concisely describe the chosen methodological approach, with reference to the integration of different monitoring and analysis techniques. Finally, the report should mention the potential scientific and applicative implications of the research, with particular attention to the contribution that the results could provide to the development of sustainable agricultural management strategies, the valorization of ecosystem services and the support of environmental and agro-ecological policies. With reference to the scholarship (**CODE E**), having the research topic on "*Quantitative approaches for agroecosystem resilience*", The candidate will be asked to develop a research topic focused on the study of biotic, abiotic, and management factors that influence the stability and resilience of agricultural systems, analyzing their dynamics in relation to environmental conditions and cultivation practices. The project must demonstrate knowledge of the theoretical and scientific framework related to agroecosystem resilience, with particular attention to the interactions between biological, environmental, and management components and their role in supporting the capacity of cropping systems to respond to external pressures and emerging risks. The candidate must be able to clearly and concisely describe the chosen methodological approach, with particular reference to the integration of different types of data from different observation scales, from territorial to farm level, including agronomic, environmental, and management data. Finally, the report must address the potential scientific and applied implications of the research, with particular attention to the contribution the results can make to the development of sustainable management strategies, the reduction of the vulnerability of agricultural systems, and the improvement of their productive and environmental sustainability. *** In order to correctly evaluate the research project, the candidate must: • indicate on the research project the reference curriculum or type of

	scholarship among those listed above he/she refers to
	• Structure the research project paper with a maximum of 25,000 characters as follows:
	1. Author
	2. Title
	3. A brief literature review
	4. Motivations behind the research
	5. Hypotheses and research design
	6. Methods and tools
	7. References.
	The research project proposal must be uploaded on-line upon submission of the application.
	Maximum score: 40 points.
	Minimum score to be admitted to the interview: 24 points.
Interview	The interview will focus on the PhD Programme main topics and on the research project proposal, envisaging a maximum of 40 points.
	Minimum score to pass the interview: 24 points.
	Candidates may be allowed to be interviewed remotely with the use of a video conference application, pursuant to the prescriptions envisaged by Article 9, paragraphs 6 and 7 of the Call for Admissions.
Place and date of the interview	The date (and, if needed, the venue) of the interview will be published at least 10 days in advance on the UNIBS web site https://www.unibs.it/en/node/1078
Academic contact information of the PhD Programme	By Curricula Appropriate Methodologies and Techniques for International Development Cooperation: sabrina.sorlini@unibs.it Mathematical Methods and Models for Engineering: hynek.kovarik@unibs.it Natural Risks Assessment and Management: giovanna.grossi@unibs.it Structural Rehabilitation of Historical and Modern Buildings: fausto.minelli@unibs.it Technologies and Processes for the Environment and Agriculture: stefano.barontini@unibs.it Urban Planning and Mobility: michele.pezzagno@unibs.it
Academic and research PhD activity	https://permalink.unibs.it/phd/dicacim/en https://permalink.unibs.it/phd/dicacim/site

PRECISION MEDICINE	
Scientific areas	02-Physical Sciences, 03-Chemical Sciences, 05- Biological Sciences; 06-Medical Sciences
Macro areas	02/B, 03/B, 03/D, 05/E, 05/F, 05/G, 06/A, 06/C, 06/D, 06/M
Duration	3 years
Starting date	**April 1st, 2026**
Proponent Structure	Department of Molecular and Translational Medicine
Coordinator	Prof. Stefania Maria Filomena Mitola
Curricula	Not envisaged
Admission requirements	The following University Degrees achieved in Italy: LM-6 Biology

	LM-8 Industrial Biotechnologies
	LM-9 Medical, Veterinary and Pharmaceutical Biotechnologies
	LM-13 Pharmacy and Industrial Pharmacy
	LM-17 Physics
	LM-18 Informatics
	LM-21 Biomedical Engineering
	LM-22 Chemical Engineering
	LM-32 Information Engineering
	LM-41 Medicine and Surgery
	LM-42 Veterinary Medicine
	LM-51 Psychology (Neuroscience and Neuropsychological Rehabilitation) "Clinical Psychology"
	LM-54 Chemistry
	LM-55 Cognitive Sciences
	LM-60 Nature Sciences
	LM-61 Science of Human Nutrition
	LM-67 Science and Technology of Preventive and Adaptive Physical Activities
	LM-67 Science and Technology of Preventive and Adaptive Physical Activities (professional enrolment A030)
	LM-70 Food science and technology
	LM-71 Industrial Chemical Sciences and Technologies
	LM-82 Statistical Sciences
	LM-91 Techniques and methods for the information society
	LM/SNT1 Nursing and Midwifery Sciences
	LM/SNT2 Rehabilitation Sciences of Health Professions
	LM/SNT3 Sciences of Technical Health Professions
	LM/SNT4 Prevention Health Professions Sciences
	A University degree achieved in Italy, such as University Degree (Italian Laurea) achieved pursuant to the Italian academic system prior to Ministerial Decree 509/1999, amended with Ministerial Decree 270/2004; equivalent Advanced Degree (Italian Laurea Specialistica) / Master's Degree (Italian Laurea Magistrale) or any equivalent academic Master Degree achieved from foreign Universities.
	For PhD admission purposes only, the equivalence between degrees awarded abroad and the Italian degrees will be assessed by the Board of Examiners.
	The eligibility of the foreign university degree is ascertained by the Board of Examiners of the selection procedure of the PhD Programmes, in compliance with the legislation in force in Italy and in the country where the university degree was awarded, as well as by the Treaties or international agreements on recognition of university degrees for the continuance of studies.
	Bachelor's Degrees are not admitted.
	Undergraduates can apply for admission, but they must have passed the degree examination by the start date of the PhD Programme activities: these candidates are required to provide the marks of the exams taken during their undergraduate career.
Total number of posts available	**n. 2**: n. 2 posts benefiting of a scholarship / other forms of financial support

Posts linked to a research topic (among those already available)	**(CODE C)** **n. 1 ordinary position benefiting of a scholarship financed by the resources of the project RICINT_2024_HORIZON_PREDICTFTD_BORRONI**, responsible prof.ssa Barbara Borroni, having a research topic on "*Frontotemporal disease and neurodegenerative dementias: diagnostic and outcome markers*" **(CODE D)** **n. 1 ordinary position for candidates being private and public administration employees that envisage the upholding of the salary treatment promoted by the Institute IRCCS - Istituto di Ricovero e Cura a Carattere Scientifico Sacro Cuore – Don Calabria di Negrar di Valpolicella (VR)**, having a research topic on "*Implementation of molecular biology in endometrial cancer and translational implications in the therapeutic field*"
Selection Procedure	
Evaluation of Curriculum Vitae/Publications, etc.	**Maximum score: 30/100** - Undergraduate University degree final score: maximum score 20/100 - Average grade of examinations passed during the course (only for undergraduates who will pass the degree examination by the start date of the PhD Programme activities): maximum score 20/100 - Publications: maximum score 4/100 - Presentations to scientific meetings: maximum score 2/100 - Post-graduate specialization degrees: maximum score 1/100 - Other qualifications: educational courses and stages, conference attendance, English language certificates: maximum score 3/100.
Evaluation of a project proposal	Not envisaged
Interview	**Maximum score: 70/100** Interview on one of the thematic areas of the curriculum indicated by the candidate; it envisages to debate about the candidates' qualifications provided; evaluation of the knowledge of English language; evaluation of communication skill and motivation to research. The interview is passed if the achieved score is no lower than 30/100. Knowledge of the Italian language is not required to foreign candidates. Candidates may be allowed to be interviewed remotely with the use of a video conference application, pursuant to the prescriptions envisaged by Article 9, paragraphs 6 and 7 of the Call for Admissions.
Place and date of the interview	The date (and, if needed, the venue) of the interview will be published at least, 10 days in advance on the UNIBS web site https://www.unibs.it/en/node/1078
Contact information of the PhD Programme	Precision Medicine Secretariat: segreteria.precisionmedicine@unibs.it
Academic and research PhD activity	https://permalink.unibs.it/phd/precmed/en