



Attachment A to Announcement PhD XLI round

PhD in ARTIFICIAL INTELLIGENCE FOR SUSTAINABLE FUTURES**Coordinator:** *Prof. Antonio Ferramosca*

Scientific Area:

01- Mathematics and informatics
09 - Industrial and information engineering
10 - Ancient, philological-literary and historical-artistic sciences
11 - Historical, philosophical, pedagogical and psychological sciences
12 - Legal sciences
13 - Economic sciences and statistics
14 - Political and social sciences

Curricula:

- AI in context: sustainable socio-technical systems
- *Participatory development of AI models, methods and applications*

| Duration | Total positions | Positions covered by scholarships |
|----------|-----------------|-----------------------------------|
| 3 years | 2 | 2 |

Scholarships:

- No. 2 financed by the Università degli studi di Bergamo;

| | |
|---|--|
| 1 | Project title: Participatory Co-design and Generative AI for Innovation in Student Services |
| | Reference Professor: Prof. Gaia Viviana Bassani |
| 2 | Project title: Intelligent Process Design for Next-Generation Public Procurement Systems |
| | Reference Professor: Prof. Ivan Libero Nocera |

Positions with no scholarship: No. 0**Access requirement:**

Possession, by Oct. 31, 2025, of a bachelor's degree obtained in accordance with the regulations in force prior to the entry into force of Ministerial Decree 509/1999, specialist degree (Ministerial Decree 509/1999), master's degree (Ministerial Decree 270/2004).

In the case of a degree obtained abroad, the evaluation of the requirement will be carried out by the selection committee.

Modality of selection

Assessment of qualifications and interview

Type of estimable qualifications

Qualification assessments (up to 60 marks):

- curriculum studiorum: up to 5 marks;
- two letters of reference from Italian or foreign academics: up to 10 marks;



- examinations sustained during the triennial/postgraduate/master degree course or degree attained according to previously-applicable systems as per Ministerial Decree 509/1999, with particular reference to the curricular subjects forming doctorate objectives: up to 15 marks;
- other qualifications of specialization and research activities, normalized per year from the date of the graduate degree specialistica/magistrale, if present (publications on international journals, specialization post-graduate courses, summer schools, attendance to research projects, position of research fellowship or research assistant, participation to research contracts, scholarships, assignments in universities and in national or international research bodies; all qualifications must be certificated, showing the activity's effective date and duration): up to 5 marks;
- research project (which will be assessed on the basis of the scientific value, originality and articulation of the proposal, consistency with the research themes of the PhD program): up to 25 marks.

Interview (up to 30 marks):

- knowledge of the English language and, for foreign students, also of the Italian language: up to 5 points
- discussion of the research project (assessment of the candidate's capacity to convincingly discuss project preconditions and goals; evaluation of the candidate's aptitude for scientific research): up to 25 marks;

Interview date:

25/09/2025 at 09:00 hours (Italian time) eventually continuing on 26/09/2025 at 09:00 hours (Italian time) depending on the number of candidates participating to the interview.

The interview will be carried out via videoconference and in English.



PhD in HUMAN AND SOCIAL SCIENCES

Coordinator: Professor Andrea Greco

**Scientific Area: 11 - History, philosophy, pedagogy and psychology
14 - Political and social sciences**

Curricula:

- *Mind and body for the generativity of psychosocial well-being*
- *Educational, didactic and training theory and research in the human and social sciences*
- *Roots and transformations of the human and social sciences*

| Duration | Total Positions | Positions covered by scholarships |
|----------|-----------------|-----------------------------------|
| 3 years | 1 | 1 |

Scholarships:

- No. 1 financed by the University for the following research topic:

| | |
|---|--|
| 1 | Project title: Accessibility as a professional posture: situated analysis of the didactic architecture and disciplinary structure of the EduNext Master's Degree course in "Designing Accessible and Inclusive Living Contexts" |
| | Reference Professor: prof. Fabio Sacchi |

Access requirement:

Possession, by Oct. 31, 2025, of a bachelor's degree obtained in accordance with the regulations in force prior to the entry into force of Ministerial Decree 509/1999, specialist degree (Ministerial Decree 509/1999), master's degree (Ministerial Decree 270/2004).

In the case of a degree obtained abroad, the evaluation of the requirement will be carried out by the selection committee.

Additional access requirements:

International students are required to have a qualification equivalent to B2 for the Italian Language.

Modality of selection:

Assessment of qualifications and interview.

Type of estimable qualifications:

Qualification assessments (up to 60 marks):

- *curriculum studiorum*: up to 10 marks;
- research project (which will be assessed on the basis of the scientific value, originality and articulation of the proposal, consistency with the research themes of the PhD program): up to 40 marks;
- two reference letters from Italian or foreign academics: up to 5 points;
- motivational letter: up to 5 points.

Interview (up to 30 marks):

- knowledge of the English language and, for foreign students, also of the Italian language: up to 5 points



- discussion of the research project (assessment of the candidate's capacity to convincingly discuss project preconditions and goals): up to 15 marks;
- relevance of demonstrated knowledge in the subjects covered by the PhD program: up to 10 marks.

Linguistic competence:

English language. Candidates who are not Italian mother tongue will be required to also demonstrate the knowledge of Italian language.

Interview date:

01/10/2025 at 02:00 pm (Italian time) eventually continuing on 02/10/2025 at 09:00 am (Italian time) depending on the number of candidates participating in the interview.
The interview will be carried out in person and in Italian.



PhD in SUSTAINABLE TECHNOLOGIES FOR INDUSTRIAL AND CONSTRUCTION ENGINEERING

Coordinator: Prof. Alessandra Marini

Scientific Area:

2 - PHYSICS

3 - CHEMISTRY

8 - CIVIL ENGINEERING AND ARCHITECTURE

9 - INDUSTRIAL AND INFORMATION ENGINEERING

Curricula:

- Advanced and Sustainable Materials
- Energy, Fluid Mechanics & Heat/Mass Transfer
- Electronics, Mechatronics, and E-Mobility
- Construction and Preservation of Built Environment

| Duration | Total Positions | Positions covered by scholarships | Positions with no scholarship |
|----------|-----------------|-----------------------------------|-------------------------------|
| 3 years | 3 | 2 | 1 |

Positions with scholarship:

- No. 1 financed by Regione Lombardia for the following research topic:

| | |
|---|---|
| 1 | Project title: Integrated Life Cycle-Based Approaches for Enabling the Circular and Low-Carbon Transition of the Built Environment in Lombardy |
| | Advisor: Prof. Elisabetta Palumbo |

- No. 1 financed by Fondazione Pietro Zappa ETS for the following research topic:

| | |
|---|--|
| 1 | Project title: Chemical Upcycling of Waste Materials for Sustainable Environmental Applications |
| | Advisor: Prof. Isabella Natali Sora |

Positions with no scholarship: No. 1

Access requirement:

Possession, by Oct. 31, 2025, of one of the following master's degrees or corresponding degree obtained under the previous regulations:

LM-4 Architettura e ingegneria edile-architettura
LM-4 c.u. Architettura e ingegneria edile-architettura (quinquennale)
LM-17 Fisica
LM-20 Ingegneria aerospaziale e astronautica
LM-21 Ingegneria biomedica
LM-22 Ingegneria chimica
LM-23 Ingegneria civile
LM-24 Ingegneria dei sistemi edilizi
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-31 Ingegneria gestionale
LM-32 Ingegneria informatica
LM-33 Ingegneria meccanica
LM-34 Ingegneria navale
LM-35 Ingegneria per l'ambiente e il territorio
LM-40 Matematica
LM-44 Modellistica matematico-fisica per l'ingegneria
LM-48 Pianificazione territoriale urbanistica e ambientale
LM-53 Scienza e ingegneria dei materiali
LM-54 Scienze chimiche
LM-71 Scienze e tecnologie della chimica industriale
LM-75 Scienze e tecnologie per l'ambiente e il territorio
4/S (specialistiche in architettura e ingegneria edile)
20/S (specialistiche in fisica)
25/S (specialistiche in ingegneria aerospaziale e astronautica)
26/S (specialistiche in ingegneria biomedica)
27/S (specialistiche in ingegneria chimica)
28/S (specialistiche in ingegneria civile)
29/S (specialistiche in ingegneria dell'automazione)
30/S (specialistiche in ingegneria delle telecomunicazioni)
31/S (specialistiche in ingegneria elettrica)
32/S (specialistiche in ingegneria elettronica)
33/S (specialistiche in ingegneria energetica e nucleare)
34/S (specialistiche in ingegneria gestionale)
35/S (specialistiche in ingegneria informatica)
36/S (specialistiche in ingegneria meccanica)
37/S (specialistiche in ingegneria navale)
38/S (specialistiche in ingegneria per l'ambiente e il territorio)
45/S (specialistiche in matematica)
50/S (specialistiche in modellistica matematico-fisica per l'ingegneria)
54/S (specialistiche in pianificazione territoriale urbanistica e ambientale)
61/S (specialistiche in scienza e ingegneria dei materiali)
62/S (specialistiche in scienze chimiche)
81/S (specialistiche in scienze e tecnologie della chimica industriale)
82/S (specialistiche in scienze e tecnologie per l'ambiente e il territorio)

In the case of a degree obtained abroad, the evaluation of the requirement will be carried out by the selection committee.

Modality of selection

Assessment of qualifications and interview.

Type of estimable qualifications

Qualification assessments (up to 60 marks):

- *curriculum studiorum*, also in relation to the years elapsed since the last qualification obtained: up to 35 points;
- *research project* (which will be evaluated based on the scientific value, originality, and articulation of the proposal, coherence with the research themes of the doctorate; the model for the drafting of the research project can be downloaded from the following [link](#)): up to 20 points;



- *other qualifications*, publications, reference letters from Italian or foreign academics: up to 5 points.

Interview (up to 30 marks):

- verification of possession of basic knowledge and skills in relation to the research project presented and discussion of the research project (evaluation of the candidate's ability to convincingly argue the premises, objectives, tools, and methods of the project): up to 30 points

Linguistic competence: English language.

Interview date:

03/10/2025 h. 9:00 (Italian time), possibly continuing on 04/10/2025 h. 9:00 (Italian time), depending on the number of candidates participating in the interview. The interview may be conducted via video conference. The interview will be held in English.

THE CHANCELLOR
(Professor Sergio Cavalieri)
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dell'art. 24 del D. Lgs. 82/2005