



ALMA MATER STUDIORUM
UNIVERSITÀ DI BOLOGNA

AREA
FORMAZIONE E DOTTORATO

PHD PROGRAMME TABLE

Call for applications for the admission to the PhD programmes (42nd cycle) - A.Y. 2026/2027
Second round

Section "Available Positions and Scholarships" integrated on 27/05/2026

PROGRAMME'S NAME	CIVIL, CHEMICAL, ENVIRONMENTAL AND MATERIALS ENGINEERING
DURATION	3 years
PROGRAMME START DATE	01/11/2026 (DD/MM/YYYY)
LANGUAGES	Italian, English
COORDINATOR	Prof. Enrico Sassoni (enrico.sassoni2@unibo.it)
CURRICULA	1. Engineering of Infrastructure, Resources and Territory 2. Structural and Geotechnical Engineering 3. Chemical and Process Engineering 4. Materials Engineering and Industrial Biotechnology
PhD POSITIONS	14
ADMISSION PROCEDURE	Qualifications and research proposal evaluation Oral examination

Available Positions and Scholarships

Position no.	Financial support	Description	Curriculum	Topic-specific positions
1	PhD scholarship	Totally funded by the University of Bologna general budget	1	Engineering of Infrastructures, Resources and Territory
2	PhD scholarship	Totally funded by the University of Bologna general budget	1	Engineering of Infrastructures, Resources and Territory
3	PhD scholarship	Totally funded by the University of Bologna general budget	1	Engineering of Infrastructures, Resources and Territory
4	PhD scholarship	Totally funded by the University of Bologna general budget	2	Structural and Geotechnical Engineering
5	PhD scholarship	Totally funded by the University of Bologna general budget	3	Chemical and Process Engineering
6	PhD scholarship	Co-funded by the University of Bologna general budget and the Dept. of Civil, Chemical, Environmental, and Materials Engineering - DICAM	3	Chemical and Process Engineering

7	PhD scholarship	Funded by the Dept. of Civil, Chemical, Environmental, and Materials Engineering - DICAM	3	Chemical and Process Engineering
8	PhD scholarship	Totally funded by the University of Bologna general budget	4	Materials Engineering and Industrial Biotechnology
9	PhD scholarship	Totally funded by the University of Bologna general budget	4	Materials Engineering and Industrial Biotechnology
10	PhD scholarship	Funded by the the Dept. of Civil, Chemical, Environmental, and Materials Engineering – DICAM with funds made available by the project FIS00000846 - CUP J53C23003860001, of the call FIS Fondo Italiano Scienza 2021 Progetto: Stochastic amplification of climate change into floods and droughts change (CO2WATER)(Directorial Decree n. 2281 of September 28 th 2021), REF. prof. Alberto Montanari 	1	Analysis of climate change impact on floods and droughts
11	PhD scholarship	Funded by the the Dept. of Civil, Chemical, Environmental, and Materials Engineering – DICAM with fund made available by the Project RUNFASTER4EU, CUP:J33C25000650006, G.A n.101214206, Ref. Prof.ssa Biagi Elena.	4	Study of analytical approaches to assess restoration and valorization of soils through microbial biodiversity evaluation
12	PhD position without scholarship		2	Resilient and adaptable constructive systems for the next generation of earthquake-resistant CLT buildings
13	PhD scholarship	Funded by the the Dept. of Civil, Chemical, Environmental, and Materials Engineering – DICAM with fund made available by the Project "Experimental Fire Testing and Standardization of Protocols for Hydrogen Transport Safety" - EXFHRE. CUP J33C26000130001	3	Modelling and experimental testing testing of cryogenic storage tanks exposed to external fires
14	PhD scholarship	Funded by the the Dept. of Civil, Chemical, Environmental, and Materials Engineering – DICAM with fund made available by the Project COREU, CUP J53C23003780006, GA n.101136217. Resp. Scientifico: Valerio Cozzani	3	Risk assessment in the capture and transport of CO2 in CCS systems

The yearly gross amount of the scholarships awarded for the PhD Programme in “Civil, Chemical, Environmental and Materials Engineering” is €19.700,76.

All winners of PhD positions must fulfil the study and research obligations decided by the Academic Board, as well as the obligations set out in the relevant regulations, in the call for applications, in the funding schemes and in any agreements relating to specific positions.

Admission Exams

	DATE AND TIME	RESULTS
Qualifications evaluation	Applicants' participation is not required	Available from 01/07/2026
Oral examination	Date: starting from 13/07/2026 – h. 9.30am CEST Place: Remotely, using Microsoft Teams	Available from 24/07/2026

The results of the qualifications and research proposal evaluation, as well as the oral examination detailed schedule, shall be available on the webpage [Studenti Online](#) (select “requests in progress” > “see detail” and open the .pdf file at

the bottom of the page). No personal written communication will be sent to applicants concerning the examinations results.

During the oral examination, applicants will express their interest in one or more PhD positions linked to specific research topics.

Required and Supporting Documents to be attached to the application

Only documents in Italian or English will be considered valid and will be assessed by the Admission Board. Identity documents and diplomas/degree certificates issued in a language other than Italian or English must be accompanied by an official translation. The translation must be carried out by an authorized body or by the awarding university. Only qualifications obtained in the last 5 years will be taken into account, with the exception of university degrees. The Admission Board will assess the relevance of the supporting documents to the PhD programme.

REQUIRED DOCUMENTS	
Identity document	Valid identity document with photo (i.e. identity card, passport)
Curriculum Vitae	No specific CV format is required. Applicants are required to attach the CV Summary, as first page of the CV (see form at the bottom of the present document).
Degrees	Documents attesting the awarding of the first and second cycle degrees, the exams taken and the marks obtained (see Art. 3 of the Call for Applications)
Research proposal	Multi-annual research proposal, with special emphasis on the activities to be completed during the first year of the programme. The proposal must meet the following requirements: - it must mention on the cover page the Curriculum (1,2,3 or 4) the applicant is interested to and the proposal is about - it cannot exceed 20,000 characters, including spaces and formula possibly used. This character count does not include: the title of proposal, the table of content, references and images (such as graphs, diagrams, tables, etc. - if present) - it must include: the state of the art; description of the proposal; expected results; outline of the proposed findings assessment criteria; references. The research proposal that successful applicants shall carry out during their PhD career may possibly differ from the one proposed at the application stage. This shall be defined together with the supervisor and approved by the Academic Board. In accordance with the University's policy on the ethical and responsible use of Generative Artificial Intelligence in teaching and research activities, candidates must explicitly state whether they have used Generative Artificial Intelligence systems in the production of the research proposal attached to their application form, specifying which tools were used and for which parts of the document. During the oral examination, the Admission Board will assess the candidate's full mastery of the content included in the document and their ability to justify the methodological and scientific choices made in the project.
SUPPORTING DOCUMENTS	
Thesis abstract	Abstract of the second cycle degree thesis . Graduands applicants may submit an abstract of the thesis to be defended. Abstracts cannot exceed 5,000 characters, including spaces and formula possibly used. The above figure does not include: the title of the thesis, the outline, references, and images such as graphs, diagrams, tables etc.
Personal Statement	The statement shall include the reasons prompting the applicant to attend the PhD Programme and those relevant experiences and research interests that make the applicant suitable for the specific PhD Programme (3,000 characters maximum, including spaces).
Publications	Lists of publications (i.e. monographs, articles on scientific journals), minor publications (conference papers, etc.), abstracts and posters presented during national and international conferences, etc.
Other documents	- Postgraduate vocational training programmes relevant to the PhD Programme main research topics - Teaching activities carried out at academic level

	- Research activity of any kind - whether basic, applied, translational, etc. - carried out in any capacity, including when covered by research grants, and as a staff member of research projects - Work activity - Curricular or non-curricular professional internships - Documents attesting the applicant's foreign languages proficiency - Study periods completed by applicants outside their countries of origin (e.g. Erasmus programme or other similar mobility programmes) - Other qualifications attesting the suitability of the applicants (scholarships, prizes, etc.)
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Evaluation criteria*

Scores will be expressed in points out of 100, as follows.

1. Qualifications and research proposal evaluation

Minimum score for admission to the oral examination: 30 points, Maximum score: 50 points

Qualifications evaluation	University degree final mark and Weighted Average Mark (WAM). Graduands shall be evaluated according to the Weighted Average Mark (WAM)	20 points max
	Publications	3 points max
	Other evaluable documents	2 points max
Research proposal evaluation	Scientific value and ground-breaking nature of the proposal, coherence with the specific research topics (as for available PhD positions in the current call)	12 points max
	Structure of the proposal	8 points max
	Proposal feasibility in the context of the PhD programme	5 points max

2. Oral examination

Minimum score for eligibility: 30 points, Maximum score 50 points

English language proficiency	5 points max
Research proposal presentation	25 points max
General knowledge of the PhD programme's main research topics and of the research topics linked to the available PhD positions	20 points max

Oral examination aims to assess the suitability of the applicant for scientific research as well as the general knowledge of the PhD programme's main research topics and of the research topics linked to the available PhD positions.

During the oral examination, the applicant's English language proficiency shall be assessed.

The oral examination is carried out in Italian or in English.

* Possible further evaluation criteria will be available on the [University website](#), selecting the relevant PhD Programme > "More information".

CV SUMMARY OF THE CANDIDATE (to be attached to the CV)

Surname _____

First name _____

Place and date of birth _____

Curriculum of interest for the Doctorate in Civil, Chemical, Environmental and Materials Engineering (select one):

- ☐ 1. Engineering of infrastructure, resources and territory
- ☐ 2. Structural and geotechnical engineering
- ☐ 3. Chemical and process engineering
- ☐ 4. Materials engineering and industrial biotechnology

TRAINING

Bachelor's degree (if more than one, repeat this section as needed)

Degree in: _____

Year of graduation: _____

University: _____

Country: _____

Formal duration of the course: _____ (years or fractions)

Weighted average of the marks obtained in the exams (GPA): _____

Minimum mark for sufficiency _____

Maximum possible mark _____

Average mark achieved by students¹: _____; reference set considered (e.g. degree course / subject area / university): _____

If the course provides for an overall final grade / verbal judgment (exams + final test) other than the GPA of the exams and the final test only:

Evaluation / mark achieved: _____

Grading scale adopted / minimum and maximum achievable mark: _____

Master's degree or single-cycle master's degree (if more than one, repeat this section as needed) Master in:

Year of graduation: _____

University: _____

Country: _____

Formal duration of the course: _____ (years or fractions)

Weighted average of the marks obtained in the exams (GPA): _____

Minimum mark for sufficiency _____

Maximum possible rating _____

Average mark achieved by students¹: _____; reference set (e.g. degree course / subject area / university): _____

If the course provides for an overall final grade / verbal judgment (exams + final test) other than the GPA of the exams and the final test only:

Evaluation / mark achieved: _____

Grading scale adopted / minimum and maximum achievable mark: _____

NOTES

¹ If the information is available. The average mark or the mark of 50% percentile (median) can be reported [specify which one].