



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 29/05/2026

PROGRAMME'S NAME	ELECTRONICS, TELECOMMUNICATIONS AND INFORMATION TECHNOLOGIES ENGINEERING
DURATION	3 years
PROGRAMME START DATE	01/11/2026 (DD/MM/YYYY)
LANGUAGES	English
COORDINATOR	Prof. Davide Dardari (davide.dardari@unibo.it)
PhD POSITIONS	17
ADMISSION PROCEDURE	Qualifications and Research proposal evaluation Oral examination

Available Positions and Scholarships

Position n.	Financial support	Description	Topic-specific positions
1	PhD scholarship	Totally funded by the University of Bologna general budget	
2	PhD scholarship	Totally funded by the University of Bologna general budget	
3	PhD scholarship	Totally funded by the University of Bologna general budget	
4	PhD scholarship	Co-funded by the University of Bologna general budget and the Department of Electrical, Electronic, and Information Engineering "Guglielmo Marconi" – DEI	
5	PhD scholarship	Funded by the Department of Electrical, Electronic, and Information Engineering "Guglielmo Marconi" – DEI	
6	PhD scholarship	Funded by the Department of Electrical, Electronic, and Information Engineering "Guglielmo Marconi" – DEI	
7	PhD scholarship	Funded by the Department of Electrical, Electronic, and Information Engineering "Guglielmo Marconi" – DEI with funds made available by the ERC-STG CUE-GO Project (Ref. prof.ssa Anna Guerra) GA 101116257	Decision-Making in Proficiency and Risk-Aware Multi-Agent Systems

8	PhD scholarship	Funded by the Department of Electrical, Electronic, and Information Engineering "Guglielmo Marconi" – DEI with funds made available by the ERC-STG CUE-GO Project (Ref. prof.ssa Anna Guerra) GA 101116257	Integrated 6G Localization, Sensing, Communications and Control
9	PhD scholarship	Funded by Centro ARCES with funds made available by RoboMix2 Project (Ref. prof. Francesco Conti) CUP J33C25000600005	Neuromorphic technologies and algorithms for autonomous cyber-physical systems
10	PhD scholarship	Funded by the Department of Electrical, Electronic, and Information Engineering "Guglielmo Marconi" – DEI with funds made available by EDF-2023-RA-ARCHYTAS Project (Ref. prof. Francesco Conti) GA 101167870	Architectures for Embodied AI
11	PhD scholarship	Funded by the Department of Electrical, Electronic, and Information Engineering "Guglielmo Marconi" – DEI with funds made available by EDF-2023-RA-ARCHYTAS Project (Ref. prof. Francesco Conti) GA 101167870	Design of Multi-tile RISC-V Architectures for edge-AI robotics
12	PhD scholarship	Funded by the Department of Electrical, Electronic, and Information Engineering "Guglielmo Marconi" – DEI with funds made available by EDF-2023-RA-ARCHYTAS Project (Ref. prof. Francesco Conti) GA 101167870	Energy-Efficient Multi-Tile RISC-V Systems for 5G Communication on Satellites
13	PhD scholarship	Funded by ARCES - Advanced Research Center on Electronic System "Ercle De Castro"	Memory Hierarchy for High-Performance Real-Time Processors
14	PhD scholarship	Funded by TIM S.p.a.	5G and B5G Network Optimisation Through MDT data, KPIs and AI Techniques
15	PhD Position without a Scholarship		Multi-domain signal processing for next generation wireless systems
16	PhD Position without a Scholarship		Resilient Waveforms for Next-Generation Wireless systems: new Air Interface Techniques for integrated Terrestrial and Non-Terrestrial 6G Networks
17	PhD Position without a Scholarship		Ultra-low-energy wireless IoT

The yearly gross amount of the scholarships awarded for the PhD Programme in “Electronics, telecommunications and information technologies 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 and research proposal evaluation	Applicants' participation is not required	Available from 01/07/2026
Oral examination	Date: starting from 08/07/2026 – h. 9.00 am CEST Place: Remotely, using Microsoft Teams	Available from 20/07/2026

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 may 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	The Curriculum Vitae must be drawn up using the CV Form , downloadable in .docx from the University website (select the PhD Programme → “More information”, then check “Notices” at the bottom of the page). A 5 points penalty on the total qualification evaluation score shall be applied to applicants not using the said CV Form, or in case of missing pieces of information.
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). In addition to the above-mentioned documents, summary information on the above-mentioned qualifications must in any case be provided in the appropriate section of the Curriculum Vitae, respecting the proposed format.
Research Proposal	Multi-annual research proposal, with special emphasis on the activities to be completed during the first-year course. The proposal must meet the following requirements: - it cannot exceed 20,000 characters, including spaces and formula possibly used. This figure does not include: the title of proposal, the outline, references and images (such as graphs, diagrams, tables, etc. - if present); - it must include the following sections and it must be drawn-up according to the maximum lengths of each section: - o context and motivation for the project (max. 1,000 characters) - o state of the art (max. 2,500 characters) - o description of the research proposal (max. 7,500 characters) - o expected results (max. 3,500 characters) - o articulation of the proposal and timeframe (max. 2,000 characters) - o proposed criteria for verifying the results achieved (max. 3,500 characters) - o bibliography - o a non-binding indication of the position(s) for which you are applying. There will be a penalty of up to 5 points on the overall score for the evaluation of the research proposal in the event of formats or lengths different from the above.

	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	
Other relevant degrees	Documents attesting any additional university qualifications in subjects related to the research areas of the PhD programme (such as, by way of example, Postgraduate vocational programmes and/or specialisation programmes, etc.). In addition to the above-mentioned documents, summary information on the above-mentioned qualifications must in any case be provided in the appropriate section of the Curriculum Vitae, respecting the proposed format.
Publications	Up to 3 scientific publications relevant to the research proposal or to the main research areas of the PhD programme (monographs, articles in scientific journals, specific contributions in volumes, conference papers, etc.). The details of the publications must be indicated in the appropriate section of the Curriculum Vitae, respecting the proposed format. For each publication submitted, please attach a copy in .pdf format (pre-print, post-print or editorial versions are acceptable). For publications accepted and not yet made available or in print, please attach a copy of the letter of acceptance.
Other documents	Documentation of activities, experiences and other qualifications, relating to research areas relevant to the PhD programme, with a duration of at least 6 months, such as, but not limited to: - 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 - Curricular and non-curricular training internships - Other qualifications attesting the suitability of the applicants (scholarships, prizes, etc.) In addition to the above-mentioned documents, summary information on the above-mentioned qualifications must in any case be provided in the appropriate section of the Curriculum Vitae, respecting the proposed format.
Reference letter	No more than 1 reference letter signed by Italian and international academics and professionals in the research field, which do not form part of the Admission Board, attesting the following: - the specific circumstances of the collaboration on which the reference letter is based; - the duration of the collaboration; - the applicant's aptitude for scientific research and the relevance of the activities carried out. Letters shall be uploaded following the procedure detailed in the Call for Applications (Art. 3.2).

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	First (Bachelor's) and Second cycle degree (Master's): final mark and relevance to the main research areas of the PhD programme. Graduands shall be evaluated according to the Weighted Average Mark (WAM)	16 points max
	Publications	5 points max

Research proposal evaluation	Other evaluable documents	5 points max
	Scientific value and ground-breaking nature of the proposal	8 points max
	Structure of the proposal	8 points max
	Proposal feasibility and relevance to the main research areas of the PhD programme	8 points max

2. Oral examination

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

Research proposal presentation	20 points max
General knowledge of the research proposal's main topics and of the research topics linked to the available PhD positions	20 points max
Insights into other qualifications, scientific publications and previous experience, scientific awards and recognitions	5 points max
English language proficiency	5 points max

The oral examination consists in the **presentation of the submitted research proposal**. It 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. An insight into the other submitted documents will be carried out, as well as an assessment of an adequate English language proficiency.

The oral examination is carried out in English.

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