

<b>PhD Programme in CIVIL ENGINEERING AND ARCHITECTURE</b>	
DISCIPLINARY SCIENTIFIC AREAS	08 - CIVIL ENGINEERING AND ARCHITECTURE; 04 - EARTH SCIENCES; 07 - AGRICULTURAL AND VETERINARY SCIENCES; 09 - INDUSTRIAL AND INFORMATION ENGINEERING; 11 - HISTORICAL, PHILOSOPHICAL, PEDAGOGICAL AND PSYCHOLOGICAL SCIENCES; 13 - ECONOMICAL AND STATISTICAL SCIENCES
COORDINATOR	PROF. IVAN BLEČIĆ
HEAD DEPARTMENT	DEPARTMENT OF CIVIL, ENVIRONMENTAL ENGINEERING AND ARCHITECTURE
DURATION	3 YEARS
LEARNING OUTCOMES AND RESEARCH TOPICS	<p>The PhD in Civil Engineering and Architecture puts the built environment and the territory at the centre of scientific interest, intended as a complex research field comprising the historical and contemporary built systems, road and hydraulic infrastructures, the environment and the natural and human-made landscapes, with particular attention to the relationships among environment, economy and society. The vast field of investigation promotes an interdisciplinary vision of the problems and topics addressed, and favours the integration between fundamental and applied research.</p> <p>Within this wide field of research, the primary objective of the PhD programme is to promote the training in research and the acquisition of methods and tools for conducting research projects, together with the ability to teach courses at the level of higher education. Particular attention is paid to the consolidation of the autonomous elaboration capacity of original research programs on the topics of the Doctorate.</p> <p>The PhD also pursues technical and operational objectives, consistent with possible professional connotation of the disciplines of civil engineering and architecture, in which fundamental research is combined with applied research, with notable social repercussions. These objectives aim to strengthen the capacity of the PhD students to identify the existing relationships and interconnections between the engineering, architectural, technological, environmental, economic and social dimensions.</p> <p>For the development of doctoral research, the PhD promotes laboratory activities on engineering, architectural, technological, environmental, economic, and social aspects connected with the construction and integration of construction works, road and hydraulic infrastructures, natural water systems and soil defence systems.</p> <p>The PhD has a strong international characterisation, provides for extended periods of research and study abroad, maintains collaborations and establishes co-supervision and <i>cotutelle</i> agreements with scholars and institutions abroad. Following the signing of agreements with École Nationale Supérieure d'Architecture de Toulouse and Université Bordeaux Montaigne, the Doctorate offers the option for the respective PhD students to undertake joint educational paths, with the consequent release of the double degree.</p> <p>The advanced knowledge and skills acquired during the doctoral course, and the constant stimulus deriving from the interdisciplinary context that characterises the Academic Board, contribute to the formation of PhD graduates, capable of addressing complex problems concerning transformations of the territory in its broadest sense, compatibly with a sustainable development of the environment, the prevention and mitigation</p>

	of natural risks and the sustainable use of natural resources.
ELIGIBILITY AND OTHER REQUIREMENTS FOR CANDIDATES (ART. 2 - NOTICE OF COMPETITION)	EVERY ITALIAN 2ND CYCLE DEGREE (LAUREA MAGISTRALE/SPECIALISTICA/VECCHIO ORDINAMENTO) AND EQUIVALENT AND SUITABLE FOREIGN ACADEMIC DEGREES
ADMISSION TESTS	<p>ASSESSMENT OF QUALIFICATIONS AND CURRICULUM VITAE, AND INTERVIEW</p> <p>The interview is aimed at verifying the candidate's ability to sustain arguments within the main study areas of the doctorate, and his/her analysis, elaboration and communication skills, as well as his or her aptitude for research.</p> <p>The candidate will also be asked to discuss a three-year research project, which must be submitted in addition to the documents required in art. 3 of the notice of competition (Annex A "Titoli valutabili e Curriculum Vitae"; Annex B 'Dichiarazione sostitutiva di certificazioni del/i titolo/i di accesso con esami e voti'; two-sided coloured scanned copy of a valid ID, with a clear photo), within the deadline (file name: research_project_surname_name).</p> <p>Candidates unable, for justified reasons, to take the interview at the established venue, may be granted the possibility of carrying it out by videoconference, on the same date and time established for face-to-face interviews, according to the procedure indicated in the notice of competition.</p>
ADMISSION TESTS FOR FOREIGN CANDIDATES APPLYING FOR RESERVED POSITIONS SUPPORTED BY A SCHOLARSHIP	<p>ASSESSMENT OF QUALIFICATIONS AND CV, VIDEO CONFERENCE INTERVIEW</p> <p>The interview is aimed at verifying the candidate's ability to sustain arguments within the main study areas of the doctorate, and his/her analysis, elaboration and communication skills, as well as his or her aptitude for research.</p> <p>The candidate will also be asked to discuss a three-year research project, which must be submitted in addition to the documents required in art. 3 of the notice of competition (certificate attesting the award of a 2nd level foreign degree needed to access a PhD programme, including exams and marks, with a translation in Italian or English; certificate attesting the award of a 1st level foreign degree, including exams and marks, with a translation in Italian or English; signed Curriculum Vitae preferably in EU format, in English or Italian; two-sided coloured scanned copy of a valid passport, with a clear photo), within the deadline.</p> <p>Reference letters (up to 3) must be written in English, using the form available on the webpage <a href="https://unica.it/dottoraticerca">https://unica.it/dottoraticerca</a> (How to apply for PhD selection: Guidelines and forms- Annex D), by a university professor or an expert in the research fields of the PhD programme, on letterhead of their institution, dated and signed. Evaluators will send their letters directly to the email address phdcall_referenceletter@unica.it (object: surname and name of the candidate being evaluated and name of the PhD programme for which he/she is applying).</p>
POSITIONS	6 (1 of which, with scholarship, reserved for a foreign candidate with a foreign degree)
SCHOLARSHIPS	5: 1 funded by UniCa; 4 funded by Ministerial Decree no. 118/2023: 2 NRRP Research, 1 Public Administration, 1 Cultural Heritage
POSITIONS WITHOUT SCHOLARSHIP	1
CONTACT PERSON	PROF. IVAN BLEČIĆ - EMAIL: <a href="mailto:dotticar@unica.it">dotticar@unica.it</a>
WEBSITE	<a href="http://dottorati.unica.it/dotticar/">http://dottorati.unica.it/dotticar/</a>
<b>SCHOLARSHIPS FUNDED BY MINISTERIAL DECREE NO. 118/2023</b>	
<b>SCHOLARSHIP 1</b>	
TYPOLOGY	NRRP Research

RESEARCH PROJECT	Methods and techniques of civil engineering and architecture for the sustainability of territorial transformations
PRINCIPAL INVESTIGATOR	Prof. Ivan Blečić
DESCRIPTION OF DOCTORAL TRAINING	<p>The research intends to develop knowledge, including applied, in the fields of civil engineering and architecture with a strong scientific-technological vocation, aimed at contributing to the innovation of practices, processes, tools and technologies for the sustainable use and consumption of resources and energy in urban and settlement-infrastructure systems, in mobility or in the building sector.</p> <p>The research activity will consist in the development of an original project on the above topics, through approaches characterizing one or more scientific macro-sectors of civil engineering and architecture and other sectors pertaining to the doctorate, in an interdisciplinary perspective.</p> <p>During the three-year period, the training will be completed by attending and passing the advanced courses offered by the doctorate, periods of study and research in companies or research centers also abroad, and the publication and presentation of the results in national and international contexts.</p>
COMPANY/RESEARCH INSTITUTION/PUBLIC ADMINISTRATION	The company/research institution/public administration where the activity will be carried out and the relative contact person will be defined after the conclusion of the selection proceedings.
NO. OF MONTHS TO BE SPENT IN THE COMPANY/RESEARCH INSTITUTION/ PUBLIC ADMINISTRATION	6
FOREIGN INSTITUTION	The foreign institution where the activity will be carried out and the relative contact person will be defined after the conclusion of the selection proceedings.
NO. OF MONTHS TO BE SPENT IN THE FOREIGN INSTITUTION	6
<b>SCHOLARSHIP 2</b>	
TYPOLOGY	Patrimonio Culturale
RESEARCH PROJECT	Architectural, archaeological and landscape heritage project for sustainable local development
PRINCIPAL INVESTIGATOR	Prof. Ivan Blečić
DESCRIPTION OF DOCTORAL TRAINING	<p>The research intends to develop knowledge, including applied research, in the fields of civil engineering and architecture with a strong scientific-technological vocation, aimed at valorization of the architectural, archaeological and landscape heritage for the promotion of sustainable local development.</p> <p>The research activity will consist in the development of an original project on the above topics, through approaches characterizing one or more scientific macro-sectors of civil engineering and architecture and other sectors pertaining to the doctorate, in an interdisciplinary perspective.</p> <p>During the three-year period, the training will be completed by attending and passing the advanced courses offered by the doctorate, periods of study and research in companies or research centers also abroad, and the publication and presentation of the results in national and international contexts</p>
COMPANY/RESEARCH INSTITUTION/PUBLIC ADMINISTRATION	The company/research institution/public administration where the activity will be carried out and the relative contact person will be defined after the conclusion of the selection proceedings.
NO. OF MONTHS TO BE SPENT IN THE COMPANY/RESEARCH INSTITUTION/ PUBLIC ADMINISTRATION	6

FOREIGN INSTITUTION	The foreign institution where the activity will be carried out and the relative contact person will be defined after the conclusion of the selection proceedings.
NO. OF MONTHS TO BE SPENT IN THE FOREIGN INSTITUTION	6
<b>SCHOLARSHIP 3</b>	
TYPOLOGY	Public Administration
RESEARCH PROJECT	Conditions of effectiveness in territorial public policies
PRINCIPAL INVESTIGATOR	Prof. Ivan Blečić
DESCRIPTION OF DOCTORAL TRAINING	<p>The research intends to develop applied knowledge aimed at determining the conditions of effectiveness in the design and implementation of territorial public policies, including the organization and strategic management of public administrations through innovative strategies oriented towards users and the effectiveness of public action, as well as the valorisation of resources.</p> <p>The research activity will consist in the development of an original project on these topics through approaches characterizing one or more scientific macro-sectors of civil engineering and architecture and other sectors pertaining to the doctorate, in an interdisciplinary perspective.</p> <p>During the three-year period, the training will be completed by attending and passing the advanced doctorate courses, periods of study and research in the public administration and research centers also abroad, and the publication and presentation of the results in national and international contexts.</p>
COMPANY/RESEARCH INSTITUTION/PUBLIC ADMINISTRATION	The public administration where the activity will be carried out and the relative contact person will be defined after the conclusion of the selection proceedings.
NO. OF MONTHS TO BE SPENT IN THE COMPANY/RESEARCH INSTITUTION/ PUBLIC ADMINISTRATION	6
FOREIGN INSTITUTION	The foreign institution where the activity will be carried out and the relative contact person will be defined after the conclusion of the selection proceedings.
NO. OF MONTHS TO BE SPENT IN THE FOREIGN INSTITUTION	6
<b>SCHOLARSHIP 4</b>	
TYPOLOGY	NRRP Research
RESEARCH PROJECT	Methods and techniques of civil engineering and architecture for the sustainability of territorial transformations
PRINCIPAL INVESTIGATOR	Prof. Ivan Blečić
DESCRIPTION OF DOCTORAL TRAINING	<p>The research intends to develop knowledge, including applied, in the fields of civil engineering and architecture with a strong scientific-technological vocation, aimed at contributing to the innovation of practices, processes, tools and technologies for the sustainable use and consumption of resources and energy in urban and settlement-infrastructure systems, in mobility or in the building sector.</p> <p>The research activity will consist in the development of an original project on the above topics, through approaches characterizing one or more scientific macro-sectors of civil engineering and architecture and other sectors pertaining to the doctorate, in an interdisciplinary perspective.</p> <p>During the three-year period, the training will be completed by attending and passing the advanced courses offered by the doctorate, periods of study and research in companies or research centers also abroad, and the publication and presentation of the results in national and international contexts.</p>

COMPANY/RESEARCH INSTITUTION/PUBLIC ADMINISTRATION	The company/research institution/public administration where the activity will be carried out and the relative contact person will be defined after the conclusion of the selection proceedings.
NO. OF MONTHS TO BE SPENT IN THE COMPANY/RESEARCH INSTITUTION/ PUBLIC ADMINISTRATION	6
FOREIGN INSTITUTION	The foreign institution where the activity will be carried out and the relative contact person will be defined after the conclusion of the selection proceedings.
NO. OF MONTHS TO BE SPENT IN THE FOREIGN INSTITUTION	6