



# PhD in ARCHITECTURAL URBAN INTERIOR DESIGN - 38th cycle

**PNRR\_351\_PUBBL\_AMMIN Research Field: MODELS AND STRATEGIES FOR INNOVATIVE EDUCATIONAL SPACES**

Monthly net income of PhDscholarship (max 36 months)
<b>€ 1195.5</b>
In case of a change of the welfare rates during the three-year period, the amount could be modified.

Context of the research activity	
<p><b>Motivation and objectives of the research in this field</b></p>	<p>In general, the Program studies architectural, urban, and interior design in all aspects through the methodological frame of design-driven research, where design is the cultural environment to test and produce theoretical and technical knowledge. This specific line of research is focused on updating public schools in Italy regarding the sustainability, inclusion, and quality of open spaces and school buildings. The topic of learning spaces plays a central role in civil society; it explores the past in search of the relationships that gave rise to the heterogeneous heritage of the school. It also investigates innovative educational spaces' updated forms and strategies in international contexts. Innovative learning and updating schools occupy a central role in international political agendas; they are also challenges of the PNRR - Piano Nazionale di Ripresa e Resilienza, specifically on Mission 4, Education and Research. The component M4C1 - Strengthening the offer of educational services: from nursery schools to universities, regards this proposal in this areas of intervention: Investment 1.3 Upgrading of sports infrastructures at school to encourage from the first grades of primary school the skills related to motor and sports activity due to their transversal values; Investment 3.2 School 4.0, innovative schools, new classrooms, and laboratories so that they become adaptable, flexible and digital connected learning environments; Investment 3.3 Plan for Safety and Redevelopment of school buildings. The main objective is to allow the safety of part of the</p>



	<p>school buildings, favoring a progressive reduction of energy consumption contributing to the climate recovery process. The research activity in its motivations and objectives is also relevant for the next generations in support of gender differences, helping increase female employment. Furthermore, among the key transversal values is the contrast between school dropout and educational poverty by promoting healthy lifestyles. The new innovative educational spaces cannot fail to include the sense of belonging to nature and the environmental context. Nature and architecture can reveal mutual resonances and correspondences in their forms. In this perspective, the research proposal is also consistent with the forecasts of the United Nations 2030 Agenda. UN Agenda has set the 4th Sustainable Development Goal to ensure Inclusive and Equitable Quality Education and promote Lifelong Learning Opportunities for All. The objective underlines how adequate school structures and learning environments are the prerequisites for any hypothesis of sustainable development.</p>
<p><b>Methods and techniques that will be developed and used to carry out the research</b></p>	<p>The candidate will develop a research methodology starting from the lectures and assignments of the AUID courses and the courses of the Polimi Ph.D. School. The internship will be made at the Schools Technical Area of our partner Comune di Milano; the candidate will spend at least six months cooperating in a project on innovative schools and innovative learning spaces. The focus is to update this nodal living space, making it a learning environment open to the different didactic approaches and rapid changes of the last decades. Schools need innovative visions so that everyone can receive support and cultivate their specific skills.</p> <p>The candidate will be directly involved in the design process elaborating specific projects for the renewal of school spaces with analysis and monitoring results. The candidate will organize and participate at a multidisciplinary working table with professionals like architects, designers, pedagogies, and philosophers, looking for new inputs for school design.</p> <p>The period of study and research abroad, from a minimum of six months to a maximum of eighteen months, will be at</p>



	<p>ETH Zurich Department of Architecture and in the Department of Architectural Design of the Faculty of Architecture of the University of Zagreb. In both cases, Architectural Design is a means and method of exploration. The studio work as a research and teaching format sharpens critical and historical awareness within design practice and increases awareness of environmental, civic space, and inequality issues. The interests in research practices are educational buildings, public spaces, and architectural education. Studying the different formats, methods, and expressions that can shape research in architectural design, the candidate will profile a methodological hypothesis considering the specificity of the selected case studies, the target, and the attended results. The program considers architectural design a relevant and necessary component of research focused on updating the public schools. The candidate will establish a specific interpretation of the research by design methodology, with the Board of the Ph.D. Program.</p>
<p><b>Educational objectives</b></p>	<p>Educational objectives focus on the deep understanding of a well-selected and defined topic-oriented to sustainable, inclusive, and qualitative development. The candidate will determine specific research containing a comprehensive overview of the scientific question and an original track and output. The candidate will acquire the skill to organize a consistent analysis of case studies, formulate a clear proposal for an original approach to a question, and elaborate innovative strategies and research methods.</p>
<p><b>Job opportunities</b></p>	<p>The Program aims to train highly qualified researchers and professionals who will work in academic institutions, research centers, and public administration, as well as in the private sector, in the fields of architectural, urban, and interior design:</p> <ul style="list-style-type: none"> <li>• University researchers and lecturers in the scientific fields of the Ph.D. Program;</li> <li>• Researchers with an excellent scientific profile in the field of complex architectural developments and</li> </ul>



	<p>interventions of recovery and transformation;</p> <ul style="list-style-type: none"> <li>• Researcher with an excellent scientific profile in the field of International Cooperation Agency, UN Agency, and private international company;</li> <li>• Independent professionals qualified in the management of highly complex design processes;</li> </ul> <p>Designers with tasks of high responsibility in institutions and professional structures and leading manufacturers, engaged in traditional residential and special utilities, cultural institutions (museums, libraries, universities, schools, cultural centers), public and private services, commercial networks, accommodation, and leisure.</p>
<b>Composition of the research group</b>	<p>15 Full Professors  21 Associated Professors  6 Assistant Professors  67 PhD Students</p>
<b>Name of the research directors</b>	prof. Barbara Coppetti

#### Contacts

##### Head of the Ph.D. Program

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Further information is available at: <http://www.auid.polimi.it>

#### Additional support - Financial aid per PhD student per year (gross amount)

<b>Housing - Foreign Students</b>	--
<b>Housing - Out-of-town residents</b>	--



(more than 80Km out of Milano)

Scholarship Increase for a period abroad	
Amount monthly	834.84 €
By number of months	6

National Operational Program for Research and Innovation	
Company where the candidate will attend the stage (name and brief description)	Schools Technical Area, Comune di Milano
By number of months at the company	6
Institution or company where the candidate will spend the period abroad (name and brief description)	Faculty of Architecture of the University of Zagreb, Croatia
By number of months abroad	6

**Additional information: educational activity, teaching assistantship, computer availability, desk availability, any other information**

**Universities and agencies that cooperate in the research**

- Katholieke Universiteit Leuven, Campus Sint-Lucas, Ghent
- University of Zagreb
- TU Delft, School of Architecture
- TU Berlin, Institute for Architecture
- Comune di Milano, Settore Scuole

**Educational activities (purchase of study books and material, funding for participation in courses, summer schools, workshops, and conferences)**

financial aid (budget) per Ph.D. student (DOTE):

per three years: 4.872,90 euro

per year: 1624,30 euro

**Workspace**

In the AUID hall, on the 4<sup>th</sup> floor of Bldg 12 in Leonardo Campus, are available workstations for shared use.