



PhD in ARCHITECTURAL URBAN INTERIOR DESIGN - 38th cycle

**PARTENARIATO PNRR Research Field: BIODIVERSE PUBLIC SPACES: EXPLORING THE
CONTEXTUAL POTENTIAL OF DESIGN-LED INTERVENTIONS OF URBAN FORESTRY**

Monthly net income of PhDscholarship (max 36 months)

€ 1195.5

In case of a change of the welfare rates during the three-year period, the amount could be modified.

Context of the research activity

**Motivation and objectives of the research
in this field**

The Program studies architectural, urban, and interior design in all their aspects through the methodological frame of design-driven research, where design is the cultural environment to test and produce theoretical and technical knowledge.

Within the 38th Cycle, starting in 2022-23, one of the research lines is focused on the promotion of urban biodiversity through design-led interventions of urban forestry for the regeneration of public spaces and underdeveloped areas, including but not limited to public housing neighborhoods, public facilities, and infrastructural premises.

The promotion of biodiversity, in line with NextGenerationEU, is one of the primary goals of PNRR, which is going to fund a national research center specifically, the National Biodiversity Future Center (NBFC), to address frontier research and innovation activities devoted to the knowledge monitoring, conservation, restoring and valorization of Italian biodiversity. In this framework, a relevant node is represented by the search for strategies to integrate the topic of biodiversity and its effects on climate change in the urban regeneration process, with specific regard to urban forestry-based actions in public housing complexes, public facilities, and infrastructural premises.

However, this requires moving from an approach that considers urban forests as mere green infrastructures and only values their ecological impact on supporting and



	<p>regulating ecosystem services. In this regard, a design-led approach can be highly relevant in offering context-based solutions that tackle the three dimensions of sustainability and the environmental quality that any urban transformations need to comply with. Especially since forestry is an essentially extra-urban activity whose relationships with the city and its structure are still partially unclear. For this reason, the research line on urban biodiversity promoted by the AUID Ph.D. program will focus on design-driven investigations that will test the modalities in which urban forestry-based strategies can be applied to the above-motivated contexts to set a technical and theoretical framework for future interventions that, besides strengthening ecological resilience and ecosystem services, can also promote long-term social inclusivity, environmental quality, and human wellbeing in urban contexts.</p>
<p>Methods and techniques that will be developed and used to carry out the research</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 research will be carried out in strict coordination with the National Biodiversity Future Center (NBFC), by which the candidate will be directly involved in actual design processes and the analysis and monitoring of the relevant results. In addition, the candidate will spend a period of at least 6 months abroad to study the social and ecological impact of design-based interventions of urban forestry in public spaces of relevant case studies.</p> <p>Studying the different formats, methods, and expressions that can shape architectural and urban design research, the candidate will profile her/his methodology by considering the specificity of the selected object, the target, and the attended results.</p> <p>The program considers designing a relevant and necessary component of any research. Each candidate will establish a specific relationship between design and research with the Board and the Supervisor.</p>
<p>Educational objectives</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</p>



	<p>the private sector in the fields of architectural, urban, and interior design:</p> <ul style="list-style-type: none"> • University researchers and lecturers in the scientific fields of the Ph.D. Program; • Researchers with an excellent scientific profile in the field of complex architectural developments and interventions of recovery and transformation; • Researcher with an excellent scientific profile in the field of International Cooperation Agency, UN Agency, and private international company; • Independent professionals qualified in the management of highly complex design processes; • Designers with 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.
Job opportunities	<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"> • University researchers and lecturers in the scientific fields of the Ph.D. Program; • Researchers with an excellent scientific profile in the field of complex architectural developments and interventions of recovery and transformation; • Researcher with an excellent scientific profile in the field of International Cooperation Agency, UN Agency, and private international company; • Independent professionals qualified in the management of highly complex design processes; • Designers with 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.
Composition of the research group	15 Full Professors 23 Associated Professors 7 Assistant Professors 64 PhD Students
Name of the research directors	Jacopo Leveratto, Fabio Lepratto

Contacts	
<p>AUID email contact phd-auid@polimi.it</p> <p>AUID Program Head prof. dr. Alessandro Rocca: alessandro.rocce@polimi.it</p> <p>prof. Jacopo Leveratto jacopo.leveratto@polimi.it</p> <p>DASTU Ph.D. Office Marina Bonaventura marina.bonaventura@polimi.it phone +39/02/2399.5165</p> <p>Marilena Mastalli marilena.mastalli@polimi.it phone +39/02/2399. 9395</p> <p>Further information is available at: http://www.auid.polimi.it</p>	

Additional support - Financial aid per PhD student per year (gross amount)	
Housing - Foreign Students	--
Housing - Out-of-town residents (more than 80Km out of Milano)	--

Scholarship Increase for a period abroad	
Amount monthly	597.76 €
By number of months	6

Additional information: educational activity, teaching assistantship, computer availability, desk availability, any other information
<p>Universities that are cooperating in the research:</p> <ul style="list-style-type: none"> •Katholieke Universiteit Leuven, Campus Sint-Lucas, Ghent •HafenCity Universitaet Hamburg



- TU Delft, School of Architecture
- TU Berlin, Institute for Architecture
- Université Paris-Saclay

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

TOTAL budget for research costs per three years: **4872,90 euro**

Workspace

The AUID hall, on the 4th floor of Bldg 12 in Leonardo Campus, is available for workstations for shared use.

All Ph.D. students can use their laptops with a wireless connection.