



# PhD in ARCHITECTURAL URBAN INTERIOR DESIGN - 38th cycle

**PNRR\_351\_PUBBL\_AMMIN Research Field: LOCAL STRATEGIES. DESIGN FOR THE  
REGENERATION OF RIVER AREAS**

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

<b>Context of the research activity</b>	
<b>Motivation and objectives of the research in this field</b>	<p>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. In accordance with some of the main measures of the PNRR, part of a broader and more ambitious strategy for the modernization of the country, the Ph.D. activity intends to work in a defined priority context, on policies and design on sustainable development and mobility, environment and climate. The proposed research especially refers to Mission 2 of the NRP/PNRR, " GREEN REVOLUTION AND ECOLOGICAL TRANSITION".In particular, within the framework of Mission 2, reference is made to M2C4: LAND AND WATER RESOURCE PROTECTION', which has among its objectives 'Preventing and counteracting the effects of climate change on hydrogeological instability and land vulnerability' [M2C4M2] and 'Safeguarding air quality and land biodiversity through the protection of green areas, soil and marine areas' [M2C4M3]; and M2C2: RENEWABLE ENERGY, HYDROGEN, GRID AND SUSTAINABLE MOBILITY, which aims to develop more sustainable local transport not only for the purpose of decarbonization but also as a lever for an overall improvement in the quality of life [...] by investing in 'soft' mobility, favoring intramodality, the use of bicycles with new urban and tourist cycle routes [M2C2M4].</p> <p>It is intended to develop a research activity to provide</p>



	<p>support for projects in the sub-basin of Torrente Lura, part of the Po River Basin, with multi-objective and interdisciplinary actions for the protection and enhancement of urban and suburban green areas.</p> <p>The research path will deepen regeneration strategies - with reference to medium-sized or small cities, or even urban belt contexts - that invest in open spaces and waterways, working on people's sense of belonging and attachment to their territory, as an element of regeneration and increased quality of the peri-urban open space in relation to individual and/or collective life.</p> <p>At the basis of the objectives of River Contracts (Contratti di Fiume) and Water Resource Protection, there is the "care" of the resource by the community (man/river relationship) fundamental for a project action that reconnects open space systems and neighborhood landscapes at multiple scales and multi-objectives, integrating the enjoyment of places with the improvement of the quality of the aquatic and peri-fluvial environment (objectives of 2000/60/EC Directive), with the mitigation of the hydraulic risk and the reduction of the vulnerability of the territory by preparing it to face emergencies through the tools (infrastructural and non-infrastructural measures) identified under 2007/60/EC Directive.</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.</p> <p>The internship will allow the candidate to spend at least 6 months in the offices of the Consorzio Parco del Lura working alongside internal staff and external professionals on public works implementing the strategies outlined: cycling routes (main valley ridge as part of the Eurovelo Route No. 5), "park gates" as mediating elements with the urban environment, areas equipped for resting and enhanced in their relationship with water, and equipped areas for resting, formation of multifunctional green systems (green and blue infrastructure), hydraulic-forest systems, creation and management of territorial parks, sustainable urban drainage systems (SuDS), vegetation</p>



	<p>elements and ecological connections.</p> <p>The internship will also investigate and develop some large-scale masterplans, particularly in the southern part and the middle valley of the Torrente Lura, defining priority areas of intervention, and connecting the urban system and the protected area. The scenarios will be submitted to the competent Municipal Administrations and to Organizations belonging to the Lura Park Consortium, to start a process of sharing and possible inclusion in the Action Programme of the River Contract, a tool that is continuously implemented and updated with reference to the strategic redevelopment scenario of the subbasin territory and to the projects that will be developed in line with the evolving nature of the negotiated planning process.</p> <p>The institutional partnership network (Public Administrations and Research Institutes) active around the projects in the Torrente Lura Valley will also allow a continuous dialogue with municipalities, provinces, Regione Lombardia, ERSAF, ENEA, and other protected areas.</p> <p>A comparison with other European experiences based on the same assumptions is envisaged. The aim is the possibility of developing a knowledge framework useful for improving processes and design. The research also has the fundamental role of highlighting in the international arena the experiences related to River Contracts as an integrated contribution to the achievement of the SNSvS and 2030 Agenda goals, particularly with respect to the SDGs. In addition to this, the candidate will spend a period of at least six months at the TU in Delft in order to study the Dutch model to further research topics related to soil and water as a resource and as a risk, as well as sustainable mobility.</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 development. The candidate will define 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</p>



	proposal for an original approach to a question, and elaborate innovative strategies and research methods.
<b>Job opportunities</b>	<p>The Program aims to train highly qualified researchers and professionals who will work in academic institutions, research centers, 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 interventions of recovering and transformation;</li> <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. Michele Ugolini

<b>Contacts</b>	
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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	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)	Consorzio Parco del Lura
By number of months at the company	6
Institution or company where the candidate will spend the period abroad (name and brief description)	TU in Delft
By number of months abroad	6

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

**Universities that cooperate in the research**

- TU Delft, School of Architecture
- Consorzio Parco del Lura
- Regione Lombardia, ERSAF, ENEA

**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.



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