



PhD in ARCHITECTURAL URBAN INTERIOR DESIGN - 38th cycle

PNRR_351_PUBBL_AMMIN Research Field: TACTICAL RECYCLING. ARCHITECTURAL REUSE PROJECTS FOR SUSTAINABLE URBAN REGENERATION

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 aspects through the methodological frame of design-driven research, where design is the cultural environment to test and produce theoretical and technical knowledge.

The present research proposal concerns the theme of the study and development of actions for the strategic reuse of the built heritage in contexts considered fragile or minor in the provinces of northern Italy. The research program aims to decline, at the architectural scale, regenerative processes consistent with the principles of circular economy, energy efficiency and rehabilitation of buildings, and the possible spin-offs in terms of urban regeneration and protection of the territory.

The present line of research focuses on the proposed theme, also with reference to the objectives of the Piano Nazionale di Ripresa e Resilienza (PNRR), specifically on Missione 2 and components M2C1, M2C3, and M2C4, which concern: the theme of the circular economy (M2C1), which in this proposal is declined at the scale of architecture and focused on the resource represented by the built heritage; the theme of energy efficiency and rehabilitation of buildings (M2C3), the central core of the research work, to be developed with the focus on combining energetic-performance efficiency and architectural-spatial quality; the protection of the territory (M2C4), to be understood as the positive spillover of



	<p>architectural regeneration actions, in their potential to act as activators of broader regenerative processes.</p> <p>The proposal, in its general lines and in its objectives, is also consistent with the three horizontal principles envisaged by the PNRR: gender equality, promotion of young people, and reduction of territorial gaps.</p> <p>The research aims to systematize and update the wealth of reflections and research produced in the last ten years around the theme of Recycle (Recycle Maxxi Exhibition, 2011; Recycle Italy PRIN Research, 2012), and the paradigm shift that followed, in order to try to test, through targeted and small-scale actions, the principles and hopes contained in the great work produced in that season.</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 internship supported by the partner Comune di Bottanuco (BG), Comune di Lallio (BG), Comune di Stezzano (BG), will allow the candidate to spend at least six months of work in a project carried out in the context of the "Isola bergamasca" and neighboring territories, aimed at field experimentation of the strategies developed by the research.</p> <p>The candidate will be directly involved in the design/planning process and the interaction with the communities through the development of multidisciplinary participatory processes, also supported by external experts.</p> <p>This experience will allow the candidate to fine-tune his methodologies and verify the preliminary work of research.</p> <p>The program believes that design is a relevant and necessary component of any research. Together with the commission and supervisor, the candidate will establish a specific relationship between design and research.</p> <p>A period of the internship abroad of at least six months is also planned, in which the researcher will develop comparative studies in a socio-spatial context particularly relevant to the research topic. In particular, the Dutch case will be studied, taking TU Delft as the partner institution.</p>



<p>Educational objectives</p>	<p>Educational objectives focus on the deep understanding of a well-selected and defined topic, oriented to sustainable development, circular processes, and to architectural and urban regeneration. The candidate will define specific research containing a comprehensive overview of the scientific question and an original track and output.</p> <p>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 tested on real cases.</p>
<p>Job opportunities</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"> • 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. • Independent professionals qualified in the management of highly complex design processes. • Designers with tasks of high responsibility in institutions and professional structures and leading manufacturers, engaged in recycling and reuse design methodologies.
<p>Composition of the research group</p>	<p>15 Full Professors 21 Associated Professors 6 Assistant Professors 67 PhD Students</p>
<p>Name of the research directors</p>	<p>prof. Marco Bovati</p>

Contacts	
<p>Head of the Ph.D. Program</p> <p>prof. dr. Alessandro Rocca</p>	



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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)

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)	Comune di Bottanuco (BG), Comune di Lallio (BG), Comune di Stezzano (BG)
By number of months at the company	6
Institution or company where the candidate will spend the period abroad (name and brief description)	TU Delft
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

- TU Delft
- Comune di Stezzano (BG)
- Comune di Bottanuco (BG)
- Comune di Lallio (BG)

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 4th 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.