

Intervento realizzato da



Politecnico
di Torino



In consideration of the determination of the Regione Piemonte – Direzione Istruzione, formazione e lavoro No. 218 of 2022, May 3 and s.m.i. which listed the higher institutions authorized to activate PhD positions in the apprenticeship format for the years 2022-2024 in the framework of a specific regional call for proposals (Apprendistato di Alta Formazione e Ricerca - Avviso Pubblico 2022-2026 per l'individuazione e la gestione dell'offerta formativa pubblica approvato con Determinazione 114 del 3/3/2022, modificato con D.D. n. 451 del 17/08/2022 e prorogato con D.D. n. 807 del 24/12/2024)

ARCHITECTURE. HISTORY AND PROJECT

Performance-based design in mountain architecture

Company	FANTINO COSTRUZIONI S.P.A. [Piva/CF:00293940045]
Supervisor	DE ROSSIANTONIO - antonio.derossi@polito.it
Contact	Alberto Fantino
Context of the research activity	<p>This doctoral position is part of the program of the “Centro Studi Dottorato e Imprese” within the Department of Architecture and Design. Within the same program, three doctoral positions are being offered in parallel—under the thematic umbrella “Processes and Products of Building”—each developed in collaboration with a different company. The outcomes of the three research projects will collectively constitute a shared body of knowledge supporting innovation in the sector.</p> <p>The Company Fantino Costruzioni has planned for the winner of this position a collaboration within a contract of high apprenticeship according to the Italian Legislative Decree 81/2015, art. 45.</p>
	<p>The objective of the doctoral research is to investigate and develop technical cultures and knowledge related to construction in mountain environments, with particular reference to timber construction technologies. Alpine architecture over the past few decades has, in fact, been one of the most productive fields and laboratories of experimentation within contemporary architectural production. This experimental production is largely due to the intrinsic relationship, specific to mountain contexts, between architectural design and construction technologies, in connection with environmental conditions, climate, geomorphology, and thus the performance of new construction techniques and material research.</p> <p>The research will analyse recent architectural and building production in Alpine regions (Italy, Switzerland, Austria, Germany, France, Slovenia), with</p>

<p>Objectives</p>	<p>the aim of:</p> <ul style="list-style-type: none"> • identifying and cataloguing innovative technological and construction approaches; • examining different contemporary timber construction systems, with attention to both entirely timber-based and hybrid technologies; • evaluating the performance of these construction and technological systems in relation to site management, construction timelines, varying environmental and geomorphological conditions, and construction costs, while proposing optimisations and further developments of the existing body of technical solutions; • decarbonisation of construction processes. <p>The research will be carried out in close collaboration with the company, and the ongoing evaluation of its outcomes will involve, in addition to regular discussions with supervisors and the doctoral board, the sharing and critical review of hypotheses and results with other research projects currently underway at the Research Centre.</p>
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<p>Skills and competencies for the development of the activity</p>	<p>The candidate shall be less than 30 years old at the moment of the hiring from the company.</p> <p>The candidate must demonstrate solid, well-documented experience in architectural design, construction technologies, and architectural representation, as well as an in-depth knowledge of the historical and critical issues related to both historical and contemporary architecture in mountain regions.</p>
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