

PhD in INGEGNERIA GESTIONALE / MANAGEMENT ENGINEERING - 38th cycle

INTERDISCIPLINARY Research Field: DESIGNING THE SUPPLY CHAINS OF THE FUTURE: SCALING-UP THE USE OF NEW SUSTAINABLE MATERIALS IN THE CONSTRUCTION INDUSTRY

Monthly net income of PhDscholarship (max 36 months)	
€ 1450.0	
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	Interdisciplinary PhD Grant The PhD research will be carried out in collaboration with research groups of the PhD programme in "ARCHITECTURE, BUILT ENVIRONMENT AND CONSTRUCTION ENGINEERING". See https://www.dottorato.polimi.it/?id=422&L=1 for further information.	
Methods and techniques that will be developed and used to carry out the research	To provide an answer to the research questions, the following methodologies are adequate: - Focus groups/industry workshops involving bio-based materials researchers and supply chain experts to identify the requirements on bio-based materials - Expert interviews for the investigation of potential barriers to sustainable innovation in construction and for the identification of possible solutions to overcome these barriers, while taking technical, supply chain and business models perspectives - Conceptual development of methods and tools for supply chain and business model innovation to accommodate bio-based materials in construction - Case studies/action research to apply and improve the proposed methods	
Educational objectives	The Ph.D. candidate at the end of the program will possess adequate research skills in the field of supply	



	chain management and a specific knowledge of innovative materials for the construction industry. In particular, the Ph.D, candidate will: - be able to perform a structured literature review - be able to perform qualitative research methods - be able to analyse qualitative data to develop insights and methods/tools - be able to present and publish her/his research results
Job opportunities	Academia, international institutions, construction companies, multinational organizations, consulting firms.
Composition of the research group	0 Full Professors 3 Associated Professors 0 Assistant Professors 2 PhD Students
Name of the research directors	Margherita Pero, Nizar Abdelkafi, Ingrid Paoletti

Contacts	
Margherita.pero@polimi.it; Nizar.abdelkafi@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	725.0€	
By number of months	6	

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

Candidates with a background in Management Engineering, Mechanical Engineering, Built Environment Engineering, Supply Chain Management Studies, Architecture. The candidate might be involved as research associate in additional research projects and as teaching assistant in courses in the area of Operations and Supply Chain Management. A desk will be provided in the Department of Management, Economics and Industrial Engineering.

Funding for educational activities: 4.900,00 Euros for three years.

Teaching assistantship: There are various forms of financial aid for activities of support to the teaching practice. The PhD student is encouraged to take part in these activities, within the limits allowed by the regulations.

POLITECNICO DI MILANO



Desk availability: shared use Computer availability: individual use