

Politecnico di Milano

PhD in Management Engineering

Research Title: “Supply Chain Digital Profiling”

Scholarships and Financial support	
Monthly net income of PhD scholarship (max 36 months)	€. 1300,00 (In case of a change of the welfare rates during the three-year period, the amount could be slightly modified)
Number of scholarships	1
Beginning of PhD	(1/2/2017)
Deadline for application	21/11/2016
Context of the research activity	
Motivations and objectives of the research in this field	The objective of the project is to develop a model for the assessment of the digitization level of the Italian supply chains and to evaluate their digital potential level. The proposed project is intended to compare the digital profiling among several supply chains and to measure the differential between the existing situation and the estimated potential level. Thus, the model can be used to set out a roadmap in order that the supply chains are able to catch up the potential level. This analysis will develop at both industry and firm level.
Methods and techniques that will be developed and used to carry out the research	The following methodologies will be applied in the research project: <ul style="list-style-type: none"> - Literature review in order to provide an up-to-date picture of the state of the art; - case studies in order to analyse the best practices and identify their critical success factors; - survey in order to analyse the level of digitalization of the firms; - analytical models to estimate the diffusion of different solutions; - analytical models to quantify the costs and benefits of different solutions; - framework for the classification of the level of digitalization in the supply chains.
Educational objectives	The main educational objectives of the research project are: <ul style="list-style-type: none"> - to develop the capacity to realise qualitative or quantitative assessment models to compare different strategies and roadmaps of digitalization; - to develop the capacity to support companies in selecting the solutions and the roadmap according to their features and objectives
Job opportunities	The opportunities for a PhD graduate in this research area are: <ul style="list-style-type: none"> - academic career in the field of Digital Innovation; - advisory for those company that have to define their path to adopt Digitalization solutions; - career as manager for companies that want to adopt Digitisation solutions in different fields (e.g. manufacturing, insurance); - career as manager for companies selling Digitisation solutions (e.g. system integrators, VAN).
Composition of the research group	Number of Full Professors: 1

	<p>Number of Associated Professors: 0 Number of Assistant Professors: 1 Number of Post-Docs: 0 Number of PhD students: 0 Number of contracted researchers: 0</p>
Names of the research directors	<i>Alessandro Perego e Riccardo Mangiaracina</i>
E-mail address, phone number and web-page	<p><i>Alessandro Perego, alessandro.perego@polimi.it, 02 2399 4052</i> <i>Riccardo Mangiaracina, riccardo.mangiaracina@polimi.it, 02 2399 4051</i></p>
List of Universities, Companies, Agencies and/or National or International Institutions that are cooperating in the research	<ol style="list-style-type: none"> 1. GS1 2. EDIEL 3. METEL 4. Consorzio Dafne 5. Agenzia delle Entrate 6. Agenzia per l'Italia Digitale
Additional support	
<p><u>Housing:</u> financial aid per PhD student per year (gross amount)</p>	<p><u>Foreign students*</u> 1st year: 0 euros per student 2nd year: 0 euros per student 3rd year: 0 euros per student</p> <p>(max number of financial bursaries available 0, given in order of merit)</p> <p><u>Out-of-town residents (more than 80 Km out of Milano)</u> 1st year: 0 euros per student 2nd year: 0 euros per student 3rd year: 0 euros per student</p> <p>(max number of financial bursaries available 0, given in order of merit)</p>
<p><u>Funding for educational activities</u> (purchase of study books and material, funding for participation in courses, summer schools, workshops and conferences): funding per PhD student per year</p>	<p>1st year: max 1.200,00 euros per student 2nd year: max 1.200,00 euros per student 3rd year: max 1.200,00 euros per student</p>
<p><u>Teaching assistantship:</u> availability of funding in recognition of support to teaching activities by the PhD student</p>	<p>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.</p>
<p><u>Computer availability:</u></p>	<p>1st year: indicate <i>individual use</i> 2nd year: indicate <i>individual use</i> 3rd year: indicate <i>individual use</i></p>
<p><u>Desk availability:</u></p>	<p>1st year: indicate <i>shared use</i> 2nd year: indicate <i>shared use</i> 3rd year: indicate <i>shared use</i></p>