



# PhD in INGEGNERIA GESTIONALE / MANAGEMENT ENGINEERING - 38th cycle

## PARTENARIATO PNRR Research Field: FIRM RESILIENCE AMIDST CRISIS AND UNCERTAINTY: THE ROLE OF RESHORING

### 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

Recent events require a reconsideration of what organizations need to survive and stay competitive. The COVID pandemic, as well as the ongoing war in Ukraine, emphasize the fact that stability should not be taken for granted, as massive and unpredictable disruptions are a constant threat. This global condition requires organizations to equip themselves with strategies, tools and processes to cope with the resulting vulnerability and uncertainty: in one word, to achieve resilience.

Resilience is especially important in the context of global value chains. As the recent Suez canal incident highlights, even localized shocks can quickly reach global scale, given that production processes are international and interconnected. While global value chains are substantially advantageous in terms of economic efficiency, they are as weak as their weakest link, as disruptions in any part of the chain may compromise it all. This research project aims to investigate global value chain restructuring, and in particular reshoring, as a possible means to achieve resilience.

By bringing back production and shortening the global value chain - also thanks to advanced technologies like 3D printing - firms may achieve greater control over their economic activities and may be better capable of coping with disruption. However, at the same time, they would lose part of the well-known economic benefits of globalization. This trade-off, among other complications,



	makes the phenomenon complex and worthy of empirical investigation.
<b>Methods and techniques that will be developed and used to carry out the research</b>	<p>This research will couple traditional and innovative methodologies. Among the former, besides the analysis of archival data (e.g. from the database Reprint), there will be a strong focus on surveys. Among the latter, the focus will be on experiments. Experiments will constitute the methodological backbone of the project.</p> <p>The project will leverage carefully designed vignette studies and/or natural experiments to establish a clear causal link between the decision to reshore and various possible antecedents (e.g. the level of uncertainty or the severity of the prospective crisis). Data gathered from archives and surveys will be used to complement and enrich experimental findings.</p>
<b>Educational objectives</b>	<p>The involved PhD student will learn (i) to understand the different scenarios on the evolution of global value chains arising from the geopolitical uncertainty and from other macro-trends such as digitalization and sustainability; (ii) to understand how multinational companies should adapt and modify their activities, location and governance choices to improve the resilience of their value chains; (iii) to understand the role of digital technologies and innovation in fostering the resilience of value chain; (iv) to understand the role of reshoring in value chains reconfiguration by assessing its multiple facets and the associated challenges and opportunities.</p>
<b>Job opportunities</b>	<p>Upon PhD completion, the candidate will have the opportunity to proceed with the academic career in prestigious universities, to work in multinational companies that are embracing the transition towards more resilient value chains and reshoring, to join public sector agencies and international organizations engaged with policy design and assessment for the attraction of new investments including reshoring companies, along with consulting organizations that advise multinational companies on the adoption of more resilient global value chains and on the challenges and opportunities associated to reshoring.</p>



<b>Composition of the research group</b>	2 Full Professors 1 Associated Professors 2 Assistant Professors 1 PhD Students
<b>Name of the research directors</b>	Proff. Stefano Elia e Lucia Piscitello

<b>Contacts</b>
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<b>Additional support - Financial aid per PhD student per year (gross amount)</b>	
<b>Housing - Foreign Students</b>	--
<b>Housing - Out-of-town residents (more than 80Km out of Milano)</b>	--

<b>Scholarship Increase for a period abroad</b>	
<b>Amount monthly</b>	725.0 €
<b>By number of months</b>	6

<b>Additional information: educational activity, teaching assistantship, computer availability, desk availability, any other information</b>
<p>The Ph.D. student will attend several methodological and disciplinary courses both at Politecnico and abroad to gain knowledge about the most advanced research methodologies and about the specific topic of the Ph.D.. He/she will be supervised through frequent meetings, and will receive feedbacks on his/her intermediate results during regular meetings with the Doctorate board. The student will be also involved in teaching activities in courses such as development economics, economics and management of multinational enterprises, and/or invest in foreign markets Lab. He/she will also attend national and international conferences where he/she will have the opportunity to present his/her papers, receive further feedback and develop his/her network of scholars for future collaborations. He/she will be offered a desk and PC at the DIG building.</p> <p>CUP: D43C22003120001</p> <p>Decreto Direttoriale Avviso: D.D. 341 del 15/03/2022 Avviso pubblico per la presentazione di Proposte di intervento per la creazione di Partenariati estesi alle università, ai centri di ricerca, alle aziende per il finanziamento di progetti di ricerca di base nell'ambito del Piano Nazionale di Ripresa e Resilienza, Missione 4 Istruzione e ricerca - Componente 2 Dalla ricerca all'impresa - Investimento 1.3, finanziato dall'Unione europea - NextGenerationEU</p>



Decreto di concessione: D.D. 1551 del 11/10/2022