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## **Supervisor Expression of Interest MSCA - Marie Sklodowska Curie Action - (PF) Postdoctoral Fellowship 2024**

Supervisor name: **prof. Luca Maria Francesco FABRIS**

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Link “Pagina docente”:

**[https://www4.ceda.polimi.it/manifesti/manifesti/controller/ricerche/RicercaPerDocentiPublic.do?EVN\\_ELENCO\\_DIDATTICA=evento&lang=IT&k\\_doc=62207&aa=2023&n\\_docente=fabris&tab\\_ricerca=2&jaf\\_currentWFID=main](https://www4.ceda.polimi.it/manifesti/manifesti/controller/ricerche/RicercaPerDocentiPublic.do?EVN_ELENCO_DIDATTICA=evento&lang=IT&k_doc=62207&aa=2023&n_docente=fabris&tab_ricerca=2&jaf_currentWFID=main)**

Department Name: **DASTU (Department of Architecture and Urban Studies)**

Research topic: **Brownfields Regeneration**

### **MSCA-PF Research Area Panels:**

- ENV\_ Environmental and Geosciences
- LIF\_ Life Sciences
- SOC\_ Social Sciences and Humanities

### **Brief description of the Department and Research Group (including URL if applicable):**

The Department of Architecture and Urban Studies (Dipartimento di Architettura e Studi Urbani – DASTU -[www.dastu.polimi.it](http://www.dastu.polimi.it)) is a thematic and interdisciplinary research structure established in January 2013 at the Politecnico di Milano. The Department deals with architectural and urban projects, spatial planning and territorial governance, urban policy, conservation and intervention in heritage and natural environment, and historical and critical interpretation of architecture, city, and territory. It makes research and fieldwork on the transformation, care and government of historical and contemporary settlements and landscapes. DASTU is currently one of Italy’s largest departmental research centres, structured in four internal sections, which combine different scientific disciplinary sectors as Architectural Design, Urban Planning and Design, History, Preservation, and Representation, Humanities, Social Sciences, and Sustainable Architecture Design. It is active in many fields of research and consultancy. Thanks to its multidisciplinary approach, it offers expertise and delivers projects to multiple subjects and organizations, such as European, national, regional, and local authorities, social and economic groups, and research institutions.



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The supervisor holds a PhD in Architectural and Environmental Technology, being one of the first in Italy researching on brownfields with a transdisciplinary approach connecting Environmental Design and Landscape Architecture techniques. His research is documented by a consistent list of publications and a series of international studies on the brownfields' topic and research collaborations with several international universities as recently the Center for Brownfields Research of Tsinghua University.

**TITLE of the project: Brownfields as Sustainability Catalysators.**

**Brief project description:**

Within the territorial and social policies that mark the current historical moment, polluted and abandoned areas (brownfields) are an essential piece for the redevelopment and regeneration of our cities.

The first environmental projects concerning post-industrial areas were conceived in the second half of the last century in the USA and were then proposed and implemented in Europe starting from the 1980s and, more recently, in China.

In some ways, brownfield reuse projects are already part of the acquired literature, constituting a standard. However, the strong interest and need to re-establish urban environmental science based on the applied principles of sustainability (such as in Europe, Nature Based Solutions, which is one of the cornerstones of the Green New Deal and New Bauhaus or, in China, the environmental redevelopment programs with a view to 2035), invite the attention of researcher not only to reread and (re)evaluate historical examples, but also to envisage new solutions with the low environmental impact that can bring these abandoned areas back not only within a dynamic urban fabric, but also well resolved from a social point of view and, in the long term, resilient.

In this frame, the proposal promotes new and transdisciplinary frontier research involving environmental redevelopment to identify the strategies necessary to adapt the historical model of reprogramming abandoned industrial areas to the most current needs of a dynamic and contemporary global society, which requires fundamental paradigm is the application of the principle of environmental sustainability.

This pivotal research proposes and promotes new environmental design visions to redefine an innovative, sustainable approach to our cities.

The ideal candidate for this research should be a visionary individual with the capability of discerning and thinking critically about the current policies and strategies for Urban Renewal, Environmental Remediation, Green Development and Public-Private Partnerships, envisioning an optimistic (taking as valid the interpretation given of 'Environmental Design' by Tomás Maldonado) equity and inclusive future for our communities.