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Supervisor Expression of Interest MSCA - Marie Sklodowska Curie Action - (PF) Postdoctoral Fellowship 2021

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Link pagina docente:	https://www4.ceda.polimi.it/manifesti/manifesti/controller/ricerche/RicercaPerDocentiPublic.do?EVN_PRODOTTI=evento&k_doc=1372&polij_device_category=DESKTOP&pj0=0&_pj1=2bf86d5cadb5b4f226745a50f1410382
Department Name:	Department of Architecture and Urban Studies (DASTU)
Research topic: (https://www.polimi.it/en/scientific-research/research-at-the-politecnico/departments/)	PE8_11 Sustainable design (for recycling, for environment, eco-design)
MSCA-PF Research Area Panels:	<input type="checkbox"/> CHE_Chemistry <input type="checkbox"/> ECO_Economic Sciences <input type="checkbox"/> ENG_Information Science and Engineering <input type="checkbox"/> ENV_Environmental and Geosciences <input type="checkbox"/> LIF_Life Sciences <input type="checkbox"/> MAT_Mathematics <input type="checkbox"/> PHY_Physics <input checked="" type="checkbox"/> SOC_Social Sciences and Humanities
Politecnico di Milano Areas:	<input type="checkbox"/> Cultural Heritage <input type="checkbox"/> Smart Cities <input checked="" type="checkbox"/> Horizon Europe Missions <input type="checkbox"/> Health <input type="checkbox"/> Industry 4.0
Title and 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), is a structure of thematic and interdisciplinary research established in January 2013, with a permanent research staff of 174 professors and researchers. It is among the Italian departments selected and funded by the Italian Ministry of University and Research (MIUR) from 2018 to 2022 within the “Excellence Departments” (L. 232/2016). The Department carries on research in the fields of architectural and urban projects, spatial planning and territorial governance, urban policy, conservation and intervention on heritage and natural environment, historical and critical interpretation of architecture, city and territory., and on the transformation, care and government of historical and



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	<p>contemporary settlements and landscapes. Based on principles of environmental, social and economic sustainability, it approaches urban contexts, local projects and rooted urban practices.</p> <p>ARS Lab / Architecture Resources Strategies Developing design strategies for architectural, urban and environmental resources.</p> <p>The Research Group focuses on reforming a strategic role of design within transformation processes of inhabited space. The aim is to renew the practice of architectural and urban design, affirming the ethical and civic contents, as strong point, but at the same time revealing the opportunities offered by “fragile” relationships that constitute distinctive features of contemporary contexts. The RG, as part of ARS lab, holds consolidated relationships with several European academies, such as TU Delft, Arc Usi Ch Mendrisio, ENSA Paris Belleville, Paris Val de Seine, Marseille, TU Berlin among others.</p>
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<p>Brief project description: (max 1 page)</p>	<p>NEW ECOLOGICAL TRANSITIONS FOR ARCHITECTURAL AND URBAN DESIGN WITH NBS SOLUTIONS</p> <p>The continuing loss of forests has substantial consequences on climate change and increases the risk of human exposure to zoonotic diseases. Reversing the damage through forest restoration is of primary importance to preserving planetary ecosystems with a multi-scalar planning approach. The research questions are: how to reconsider the relationship between forests and spaces inhabited by man? What are the principles of planning and paradigmatic design of forest developments within the general principles of NBS in the context of fragile territories? How to build models, guidelines and design tools to improve planning and policy actions for sustainable forest planting in collaboration with local actors and communities?</p> <p><i>Articulation Individual research</i> is theoretical design-based research within the international network composed of EU partners (TU Delft; TU Athens; TU Warsaw; Antwerpen University; University of Ljubljana, AMP-Paris La Villette) with the possibility of staying abroad for short research periods.</p> <p><i>Collaborative research</i> within the Lab Ars research group for the organization of events and seminars and the participation in international and national research calls (e.g. PRIN; HEM; JPI</p>
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	<p>etc.)</p> <p><i>Experimental educational activities</i> in coordination with the Department of Excellence Project “Territorial fragilities”</p> <p><i>Research objectives.</i> The research involves developing analytical methodologies for qualitative and quantitative interdisciplinary research in the restoration of fragile territories and urban areas. Through forest plantation actions to build solid knowledge on forests as anthropic cultural product; to improve ecological qualities and biodiversity of fragile territories and urban areas; to promote social awareness on forests through inclusive policy actions. It will be oriented to intellectual/scientific results such as developing prototyping systems and design models for application in Horizon Europe Mission goals.</p>
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