

## Expression of Interest-UPM Supervisor

### *Marie Skłodowska Curie Action–Postdoctoral Fellowship 2026 (MSCA-PF-2026)*

<b>Supervisor Name</b>	María del Mar Barbero Barrera	
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<b>Department /Institute / Centre Name/Location</b>	Department of Construction and Technology in Architecture / Escuela Técnica Superior de Arquitectura / Universidad Politécnica de Madrid / Madrid	
<b>Research Area</b>	Environment and Geoscience (ENV)	Life Sciences (LIF) Chemistry (CHE)
<b>Research team/group</b>	<p>The <b>ABIO-UPM Research Group</b> is a consolidated multidisciplinary team at UPM specializing in <b>bioclimatic architecture, sustainable construction, and ecological urban planning</b>. It leads national and international R&amp;D projects and develops innovative bioclimatic strategies and sustainable materials. The group works with advanced ETSAM infrastructures and collaborates closely with industry partners and international networks, fostering impactful applied research and technology transfer. More than 20 researchers contribute to high-level scientific output and advanced training programs.</p> <p><a href="https://www.dcta.upm.es/grupo-de-investigacion-abio/">https://www.dcta.upm.es/grupo-de-investigacion-abio/</a></p>	
<b>Keywords</b>	Environment, Pollutants; Building Materials; Air Quality, Construction	
<b>Research Focus</b>	<p><b>Pollutants associated to building materials</b></p> <p>Air quality had become one of the main issues in the last decades due to the consequences on human health. Building materials had arisen as one of the major sources of pollutants, so, it is proposed to explore how the building materials influence the indoor air quality. It implied the evaluation of existing building materials as well as the design of new ones of low-impact and innovative, capable of reducing environmental footprints while limiting indoor pollutant emissions, integrating material science, sustainability, and human health. This research area is open, evolving, and strongly connected to Lime4Health, a project assessing how lime-based coatings and user habits can enhance indoor air quality in schools—an ideal platform for researchers eager to develop innovative solutions for healthier, more sustainable educational buildings.</p>	
<b>Applications: documents to be submitted and deadlines</b>	It is recommended to submit letter of motivation and the references of researchers that support the interest and background of the candidate, as well as the CV. The deadline for the submission is 24 <sup>th</sup> of April of 2026.	