

**Marie Skłodowska Curie Action –Postdoctoral Fellowship 2023  
(MSCA-PF-2023)**

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<b>Department /Institute /Centre</b>	<b>Name</b>	Mining and Geological Engineering
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	<b>Province</b>	Madrid
<b>Research Area</b>		Information Science and Engineering (ENG) Environment and Geoscience (ENV) Chemistry (CHE)
<b>Brief description of the Centre/Research Group</b>		<p>The UPM's team is composed by Professors Ana Méndez and Gabriel Gascó, an associate professor Antonio Saa and a researcher "Margarita Salas" Eliana Cárdenas. The research team is completed by two PhD students. The leader of the group is Dr. Ana Méndez.</p> <p>Prof. Ana M<sup>a</sup> Méndez is doctor in Chemical Sciences since 2001. She works as a Professor of Extractive Metallurgy in the Mining and Energy School, Department of Mining and Geological Engineering (Universidad Politécnica de Madrid) and as researcher of the research group "Valorisation of resources". She is author of 91 included in JCR journals in the area of carbon materials (activated carbon, catalysts, biochar, carbon composites and nanotubes) and recovery of metals from minerals and wastes. Her h index is 42 and the h10 is 73 (academic google). Its publications have been cited 5815 times. Prof. Ana Méndez is in the the world's top 2% most widely cited in the scientific field of environmental engineer according to the new ranking 2023 from Stanford University considered the most prestigious worldwide. This ranking, compiled using Scopus citation information, classified the researchers according to the number of citations.</p> <p>Our research group is developing the next research projects:</p> <ol style="list-style-type: none"> <li>1. Green leaching systems based on aminoacids for the development of eco-friendly technologies for metal recovery from wastes and the contribution to a sustainable agriculture (TED2021-131199B-I00). Proyectos de Transición Ecológica y Digital 2021.</li> <li>2. Research in advanced recycling technologies to obtain strategic metals from electric vehicle batteries. Misiones CDTI</li> <li>3. Recovery of metals from mining wastes: Study of the behaviour of biomass-derived activated carbons as catalyst for metal sulphide leaching processes. Ministerio de Ciencia, Innovación y Universidad.</li> </ol>

**Expression of Interest – UPM Supervisor**

<b>Project description</b>	<p>The new researcher will be welcome to work in the development of green hydrometallurgical processes for the recovery of metals from wastes. Additionally, the researcher will be work in the fabrication and development of advanced functionalized carbon materials and for purification of leaching solutions.</p> <p>Our objective is to contribute to circular economy related to the recovery of metals with high purity for uses in the same or new advanced technologies and reducing the exploitation of primary raw materials. Additionally, we want to contribute to the prevention and control of pollution due to the development of eco-friendly technologies.</p>
<b>Applications: documents to be submitted and deadlines</b>	<p>CV</p> <p>Letter of motivation</p> <p>Letter of references</p> <p>Deadline: All candidates must submit CV and motivation letter by the 30th of April 2023</p>