



2019-IPR-A5-FGIV-011519

**FGIV – Scientist - Exploratory Research Project  
Sustainable and Efficient Alternative Plastic  
Storage (SEAPLAST)**

<p><b>Position for:</b> <b>FG IV Scientist</b></p>	<p>As the science and knowledge service of the Commission, the mission of DG Joint Research Centre is to support EU policies with independent evidence throughout the whole policy cycle.</p> <p>The JRC is located in 5 Member States (Belgium, Germany, Italy, the Netherlands and Spain). Further information is available at <a href="http://ec.europa.eu/jrc/">http://ec.europa.eu/jrc/</a></p> <p>The JRC offers a vacancy for a Contract Agent within the Exploratory Research Project SEAPLAST (Sustainable and Efficient Alternative Plastic Storage).</p> <p>The JRC Exploratory Research Programme (ER) is a strategic initiative characterised by ideas that might lead to novel results to qualitatively enrich current JRC scientific work.</p> <p>The Exploratory Research Project SEAPLAST will contribute to the definition of guideline needs for the use of waste plastic material in cement based composites like concrete and mortar. It will investigate the physico-chemical mechanisms of interaction between plastics and concrete. The project will explore recent achievements made in the use of irradiated plastic waste checking fresh and mechanical properties of plastic enhanced concrete and mortar.</p> <p>The successful candidate will be in charge of:</p> <ul style="list-style-type: none"><li>• Designing and following the experimental activities needed for the characterization of the fresh state properties of the new materials;</li><li>• Designing and carrying out the experimental tests needed for the mechanical characterization of the new materials;</li><li>• Treatment of the experimental results;</li><li>• Considering a Life Cycle Analysis approach for the materials and processes studied;</li><li>• Based on the results obtained, drafting an analysis of the policy perspectives and needs for the use of plastic waste in construction materials;</li><li>• Writing scientific publications;</li><li>• Dissemination/publication of results.</li></ul> <p>Qualifications:</p> <ul style="list-style-type: none"><li>• Completed university studies of at least three years attested by a diploma and at least five years professional experience in a field relevant to the position, alternatively a PhD in Civil and/or Building Engineering or related field;</li><li>• Extensive knowledge/experience in experimental methodologies for construction materials and/or civil structures proven by scientific publications or technical reports or thesis is essential;</li><li>• Broad knowledge in the area of the use of advanced technologies for the evaluation of integrity and/or performance of materials and/or structures is essential;</li></ul>
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	<ul style="list-style-type: none"> <li>• Familiarity with the use of innovative materials in the construction sector is an advantage;</li> <li>• Good record of research activities relevant for the post including publications in international peer-reviewed journals is an advantage;</li> <li>• Good oral and written communication skills in English (B2) are essential.</li> </ul> <p>In addition, the following competences will be considered as an advantage:</p> <ul style="list-style-type: none"> <li>• Ability to work in a team and in a multi-cultural environment;</li> <li>• The candidate is expected to be creative and work independently.</li> </ul>
<p><b>Directorate Unit</b></p> <p><b>Project</b></p>	<p>Space, Security and Migration Safety and Security of Buildings</p> <p>The Scientific Development Unit of the Directorate for Strategy and Work Programme Coordination is in charge of the overall JRC Exploratory Research Programme.</p> <p>The operational scientific research will take place in the Safety and Security of Buildings Unit in Ispra (Italy).</p> <p>Exploratory Research Project: Sustainable and Efficient Alternative Plastic Storage (SEAPLAST)</p> <p>Further information is available at: <a href="https://ec.europa.eu/jrc/en/research-topic/improving-safety-construction">https://ec.europa.eu/jrc/en/research-topic/improving-safety-construction</a></p>
<b>Indicative Duration</b>	24 months
<p><b>JRC Site</b></p> <p><b>Country</b></p>	<p>Ispra</p> <p>Italy</p>
<b>Rules and eligibility</b>	<p>The candidate must be on any valid EPSO reserve list for Function Group IV contract staff.</p> <p>Applicants to the following Calls for expression of interest can also be considered:</p> <ol style="list-style-type: none"> <li>1. CAST Permanent - EPSO has launched in January 2017 an open-ended selection procedure to create a pool of candidates from which the institutions, bodies, offices and agencies of the European Union (EU) can recruit contract agents. Details available at the link below: <a href="https://epso.europa.eu/documents/2240_en">https://epso.europa.eu/documents/2240_en</a></li> <li>2. Call COM/1/2015/GFIV – Research - The JRC has launched in January 2015 a permanent call for researchers FG IV. Details available at the link below: <a href="https://ec.europa.eu/jrc/en/working-with-us/jobs/vacancies/function-group-IV-researchers">https://ec.europa.eu/jrc/en/working-with-us/jobs/vacancies/function-group-IV-researchers</a></li> </ol> <p><b>Auxiliary contract staff:</b> <a href="https://ec.europa.eu/jrc/en/working-with-us/jobs/temporary-positions/contract-staff-members">https://ec.europa.eu/jrc/en/working-with-us/jobs/temporary-positions/contract-staff-members</a></p> <p>Article 3b of the Conditions of Employment of Other Servants of the European Union applies: the actual period</p>

	<p>of employment within the Commission under this type of contract, including any period under renewal, shall not exceed 6 years.</p>
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*Please note that in case a high number of applications is received only shortlisted candidates will be contacted.*