



2019-IPR-A5-FGIV-011516

**FGIV – Scientist - Exploratory Research Project  
Nanomedicine for Combatting Microbial  
Infections (NANO-MICROBIALS)**

<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 NANO-MICROBIALS (Nanomedicine for Combatting Microbial Infections).</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>Using the ability of nanovectors to encapsulate various anti-microbial drugs, the ER Project NANO-MICROBIALS will develop model targeted nano-delivery system to test combination of drugs and to assess their performances against selected bacterial models. This will allow identifying the key determinants of efficacy and quality of "targeted nano-antimicrobials". The aim is to speed up the development and use of these innovative "targeted nano-antimicrobials" by providing tools and procedure for their accurate characterization and testing.</p> <p>The successful candidate will be in charge of carrying out all aspects of the NANO-MICROBIAL project, this including:</p> <ul style="list-style-type: none"><li>• Synthesis and basic characterization of the targeted nano-vectors;</li><li>• Development of advanced methods for characterization of targeted nanodelivery systems;</li><li>• Dissemination and publication of results.</li></ul> <p>Qualifications:</p> <ul style="list-style-type: none"><li>• PhD degree in chemistry, nanotechnology, pharmaceutical technology, biochemistry, or related fields or, alternatively, 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;</li><li>• Extensive experimental research experience on characterization of biological macromolecules and/or nanomaterials is essential;</li><li>• Broad knowledge in the area of separation (such as FFF, HPLC, SEC) and biophysical techniques (CD, protein analysis, fluorescence, MS, AUC) is an advantage;</li><li>• Knowledge of advanced measurement techniques such as TEM, NMR is an advantage;</li><li>• Solid record of publications in international peer-reviewed journals is essential;</li><li>• Good oral and written communication skills in English (B2) are essential.</li></ul>
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	<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 proactive and capable to work independently in the nanobiotechnology laboratory.</li> </ul>
<p><b>Directorate Unit</b></p> <p><b>Project</b></p>	<p>Health, Consumers and Reference Materials Consumer Products Safety</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 Consumer Products Safety Unit in Ispra (Italy).</p> <p>Exploratory Research Project: Nanomedicine for Combatting Microbial Infections (Nano-Microbials)</p> <p>Further information is available at: <a href="https://ec.europa.eu/jrc/en/research-facility/nanobiotechnology-laboratory">https://ec.europa.eu/jrc/en/research-facility/nanobiotechnology-laboratory</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 of employment within the Commission under this type of contract, including any period under renewal, shall not exceed 6 years.</p> <p><i>Please note that in case a high number of applications is received only shortlisted candidates will be contacted.</i></p>