

## JOB OFFER

Position in the project:	<b>Postdoc</b>
Scientific discipline:	Material Sciences; Smart Nanomaterials; Biomaterials; Drug Delivery
Job type:	Full-Time Employment Contract
Number of job offers:	1
Remuneration/stipend amount/month:	Full monthly remuneration (total employment costs including net salary, taxes, insurances, and pension): around 8 200 PLN – approximately 6 500 PLN net (around 1 500 euro net)
Position starts on:	1 <sup>st</sup> October 2023
Maximum period of contract/stipend agreement:	<b>24 months</b>
Institution:	Institute of Fundamental Technological Research (IPPT PAN), Warsaw
Project leader:	Filippo Pierini
Project title:	<b>Multifunctional smart nanostructured platforms for light-triggered wound healing polytherapy</b>  <i>Project is carried out within the Sonata Bis programme of the National Science Centre (NCN)</i>
Project description:	<p>The biological activities connected with wound healing are extremely varied, complex, and dependent on several factors, therefore biological processes related to every wound area and structure are changing over time. Scientists have been trying to mimic the multifunctional behavior of natural biological structures during the last few years. To overcome these issues, a novel class of materials capable of treating the injury with different therapeutic strategies is needed. Moreover, the possibility of triggering a single therapeutic process on-demand at a well-defined place and the precise time is a key factor in developing an ideal biomaterial for wound healing treatments.</p> <p>This research aims to design, develop, and test the applicability of nanocomposites made by the combination of hydrogel and electrospun nanofibers for wound healing application, having unique optical, mechanical, and chemical properties merged with biocompatibility and responsivity to light. The novel nanostructures fabricated during the project will have the ability to merge a few targeted therapeutic strategies in one single nanostructured material.</p>
Key responsibilities include:	<ol style="list-style-type: none"> <li>1. Design and conduct electrospinning experiments</li> <li>2. Develop hydrogels-based nanostructured composites</li> <li>3. Morphological, chemical, mechanical, and optical characterization of the obtained hydrogel nanomaterials (from designing/performing the experiments to the data analysis)</li> <li>4. Report preparation</li> </ol>

	<ol style="list-style-type: none"> <li>Disseminate the scientific results, publishing the work in high-quality journals</li> <li>Supervision of Ph.D. students</li> </ol>
Profile of candidates/requirements:	<ol style="list-style-type: none"> <li>Holding a doctoral degree/PhD in Chemistry, Polymer Science, Physics, Nanotechnology or any related field of Materials Engineering</li> <li>Solid background in polymer biomaterial development (expertise in electrospinning as well as hydrogel and/or stimuli-responsive polymer nanomaterial fabrication is desirable)</li> <li>Keen interest in polymer nanomaterial characterization (e.g. SEM, AFM, FT-IR, XRD, DSC, TGA, Photothermal characterization, etc.)</li> <li>Ability to design, execute and evaluate research experiments (experience with drug delivery testing as well as <i>in vitro</i>, <i>ex vivo</i> and <i>in vivo</i> tests is not mandatory but highly desirable)</li> <li>Excellent collaboration skills as well as the ability to work independently</li> <li>Ability to co-supervise students</li> <li>Highly capable of communicating scientific results in English, both orally and in writing</li> </ol>
Required documents:	<ol style="list-style-type: none"> <li>Motivation letter with a description of research interests and previous experience relevant to the position applied for</li> <li>CV including a complete list of publications</li> <li>Attested copies of scientific degree (MSc/Ph.D.), diploma in English</li> <li>Recommendation letter and an additional referee that we can contact</li> <li>Please include in your CV the following clause: "I agree to the processing of personal data contained in my job offer for the needs necessary to carry out the recruitment process conducted by IPPT PAN with headquarters in Warsaw, ul. A. Pawińskiego 5B, according to art. 13 para. 1 and 2 of Regulation (EU) 2016/679 of the Parliament and of the Council of 27 April 2016 on the protection of individuals with regard to the processing of personal data and the free movement of such data and the repeal of Directive 95/46 / EC (RODO).</li> </ol>
We offer:	<ol style="list-style-type: none"> <li>Postdoc position in a top-ranked research institute in Europe</li> <li>Full-time employment contract within an internationally competitive environment</li> <li>Access to modern equipment and facilities</li> <li>Possibility for interdisciplinary collaborations with foreign cooperation partners</li> <li>Opportunity to participate in scientific conferences and training courses</li> </ol>
Please submit the following documents to:	Applications should be sent to <a href="mailto:konkursy.ippt@ippt.pan.pl">konkursy.ippt@ippt.pan.pl</a> (with <a href="mailto:fpierini@ippt.pan.pl">fpierini@ippt.pan.pl</a> in Cc) quoting "Postdoc2 Sonata Bis [Surname of the Applicant]" in the email subject.
Application deadline:	<b>15<sup>th</sup> August 2023</b> (candidates selected for interviews will be contacted a few days after the deadline)
For more details about the position, please visit:	<a href="http://www.nanoprg.com">www.nanoprg.com</a> or email: <a href="mailto:fpierini@ippt.pan.pl">fpierini@ippt.pan.pl</a>
Euraxess job/stipend offer:	<a href="https://euraxess.ec.europa.eu/jobs/121156">https://euraxess.ec.europa.eu/jobs/121156</a>

Due to the entry into force of Regulation (EU) 2016/679 of the European Parliament and of the Council of 27 April 2016, we also require that your job advertisements include a clause requesting the candidate's consent to the processing of his or her personal data by the institution which carries out the recruitment process.