



**2018-IPR-F-000-010552**

**Regulatory science framework for  
nano(bio)material-based health products**

**Position for:**

Trainee

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.

The JRC is located in 5 Member States (Belgium, Germany, Italy, the Netherlands and Spain). Further information is available at: <http://www.jrc.ec.europa.eu>

**Short description of activity:**

The Consumer Products Safety Unit (F.2), part of Health, Consumers and Reference Materials Directorate-F at the JRC in Ispra (Italy), is looking for a trainee for the Nanobiotechnology laboratory.

Nanotechnology based health products offer promising opportunities to address unmet medical needs. However, the special characteristics of nanomaterials used in medical products require a timely preparation of the regulatory frameworks in order to allow a smooth translation of these innovative products to the market. The Horizon 2020 project REFINE (<http://refine-nanomed.com/>) that is aiming to develop a Regulatory Science Framework for the risk-benefit assessment of medical products based on nanotechnology is currently anticipating and addressing regulatory needs for the next generation nanomedicines. In particular, the interaction of the material with biological systems requires a close monitoring of the scientific literature in order to recognize upcoming challenges with innovative materials. The huge increase of scientific literature in this field as well as the variety and complexity of possible biological effects require the use of automatic text mining tools for an objective and effective monitoring of the field. A proper preparation of data, their import in a framework (e.g. Excel) for further filtering and management will allow the analysis of early signals of adverse effects requiring regulatory awareness.

He/She will get an overview on the regulatory frameworks relevant for nanomedicines and contribute to the REFINE project. In addition,

	<p>the trainee will have the opportunity to gain insights into automatic text and tech mining tools, as well as the analysis of results.</p> <p><b><u>Qualifications:</u></b></p> <p><b><u>Essential:</u></b></p> <ul style="list-style-type: none"> <li>•University degree in cell biology, pharmacology, toxicology or related discipline.</li> <li>•Good knowledge of spoken and written English (level B2)</li> <li>•Good knowledge of Excel and other Office tools are required.</li> <li>• Ability to work in a team.</li> </ul> <p><b><u>Advantage</u></b></p> <ul style="list-style-type: none"> <li>• Practical experience in (systematic) reviews is an asset.</li> <li>• Publications in this field in English would be an advantage.</li> </ul> <p><b><u>For general eligibility requirements, please read the rules governing the traineeship scheme of the JRC:</u></b></p> <p><a href="https://ec.europa.eu/jrc/en/working-with-us/jobs/temporary-positions/jrc-trainees">https://ec.europa.eu/jrc/en/working-with-us/jobs/temporary-positions/jrc-trainees</a></p>
<b>Unit/Directorate</b>	<p>Directorate F - Health, Consumers and Reference Materials</p> <p>Unit F.2 – Consumer Products and Safety</p>
<b>Indicative duration</b>	5 months
<b>JRC Site</b>	Ispra
<b>Country</b>	Italy
<b><u>JRC contact details</u></b>	<p><b>For any technical problems with your application, please contact:</b></p> <p><a href="mailto:HR-AMC8-RECRUITMENT-TOOLS-SUPPORT@ec.europa.eu">HR-AMC8-RECRUITMENT-TOOLS-SUPPORT@ec.europa.eu</a></p>