



**2019-IPR-F-000-011548**

**Studying the diffusion behaviour of nanoparticles in multiphase media**

**Position for:**

Trainee

As the science and knowledge service of the Commission, the mission of 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 Chemical Safety and Alternative Methods Unit (F.3), which includes the European Union Reference Laboratory for alternatives to animal testing (EURL ECVAM), is part of the JRC's Directorate for Health, Consumers and Reference Materials (Directorate F).

We develop, evaluate, harmonise and promote innovative methods for the regulatory safety assessment of chemicals. We provide support to a broad range of policy areas including industrial and household chemicals, cosmetics, food, plant protection products, endocrine disrupters and chemical mixtures.

The five-month traineeship will contribute to our understanding of the diffusion behaviour of nanomaterials in various multiphase (liquid) media with a view to elucidating how different media/nanomaterial properties affect diffusion and sedimentation behaviour. Attention will also be given to how nanomaterial diffusion can be measured using optical techniques and how the knowledge gained can be applied in various contexts such as predicting nanomaterial behaviour in biological media relevant to in vitro cell-based assays.

The trainee will be supervised by experienced scientists and the work will likely involve both desk-based and lab-based activities.

For more information on our activities go to:

	<p><a href="https://ec.europa.eu/jrc/en/research-topic/alternatives-animal-testing-and-safety-assessment-chemicals">https://ec.europa.eu/jrc/en/research-topic/alternatives-animal-testing-and-safety-assessment-chemicals</a></p> <p><b><u>Qualifications:</u></b></p> <p><b><u>Essential:</u></b></p> <ul style="list-style-type: none"> <li>• Undergraduate or Masters degree in physics, engineering or chemistry</li> <li>• Experience in handling nanomaterials and analysing their properties experimentally</li> <li>• Experience in optical techniques including microscopy</li> <li>• Very good level of English (B2 or above)</li> </ul> <p><b><u>Advantage:</u></b></p> <ul style="list-style-type: none"> <li>• Ability to work in a team</li> <li>• Knowledge of diffusion of particles in liquid media</li> <li>• Experience in data analysis and visualisation</li> <li>• Experience in writing papers and reports</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 – F.3 – Chemical Safety and Alternative Methods Unit</p> <p>Further information:  <a href="https://eurl-ecvam.jrc.ec.europa.eu/">https://eurl-ecvam.jrc.ec.europa.eu/</a></p>
<b>Indicative duration</b>	5 months
<b>Preferred starting date</b>	As soon as possible
<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>  <a href="mailto:HR-AMC8-RECRUITMENT-TOOLS-SUPPORT@ec.europa.eu">HR-AMC8-RECRUITMENT-TOOLS-SUPPORT@ec.europa.eu</a></p>