EUROPEAN COMMISSION
DIRECTORATE-GENERAL HUMAN RESOURCES AND SECURITY
Directorate HR.AMC –Account management Centre
HR.DDG. AMC 8

2019-IPR-F-000-013068	**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. The European Strategy for Plastics in a Circular Economy requires a better understanding of the fate and effects of nanoplastic on human health. In this context, knowledge on a potential uptake of nanoplastics through the food chain is central for a science based risk assessment. We are currently setting up a tiered approach using different in vitro models of increasing physiological relevance which will give us information on the interaction of nanoplastics with cells of the gastrointestinal tract. In particular, the establishment of microfluidic cell culture systems as well as organoids will contribute to the development of innovative approaches promoting the hazard identification and characterisation of emerging pollutants such as nanoplastic. He/She will be introduced into the particularities of testing nanomaterial in vitro. In addition, the candidate will get insights into the various advanced cell culture models currently used for toxicity testing. **Qualifications:** **Essential:** • University degree or near completion in in-cell biology, pharmacology, toxicology or related discipline.

	• Good knowledge of spoken and written English (level B2) • Good knowledge of Excel and other Office tools are required. • Experience in cell culture of complex cellular systems e.g. organoids, microfluidics or organ-on-a-chip **Advantage** • Ability to work in a team. • Publications in this field in English would be an advantage. • Knowledge on culturing cells from the gastrointestinal tract • In vitro assessments of nanoplastics **For general eligibility requirements, please read the rules governing the traineeship scheme of the JRC:** https://ec.europa.eu/jrc/en/working-with-us/jobs/temporary-positions/jrc-trainees
Unit/Directorate	Directorate F - Health, Consumers and Reference Materials Unit F.2 – Consumer Products and Safety
Indicative duration **Preferred starting date**	5 months As soon as possible
JRC Site **Country**	Ispra Italy
JRC contact details	**For any technical problems with your application, please contact:** HR-AMC8-RECRUITMENT-TOOLS-SUPPORT@ec.europa.eu