



2017-IPR-F-000-9226

Trainee on in vitro to in vivo extrapolations

<p>Position for:</p> <p>Trainee</p>	<p>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.</p> <p>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</p> <p><u>Short description of activity:</u></p> <p>The Chemical Safety and Alternative Methods (F.3) including The European Union Reference Laboratory for alternatives to animal testing (EURL ECVAM), is part of the Directorate F for Health, Consumers and Reference Materials.</p> <p>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.</p> <p>This five (5) months traineeship position at the Chemicals Safety and Alternative Methods unit and EURL ECVAM is linked to our activities on the use and development of computer-based methods as an alternative to animal testing. The trainee will have the opportunity to develop a mini-project while being trained on the combination of alternative methods to animal testing for risk-assessment purposes, under the supervision of experienced scientists. The project will focus on in vitro to in vivo extrapolation (IVIVE), using advanced in silico and in vitro methods by exploiting organ on a-chip (OoC) technologies.</p> <p>The trainee's main task will be to collaborate to the development an approach to relate OoC data to in vivo by extrapolation using mathematical models. The initial task will include a literature search to gather information and understand the current state</p>
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	<p>of science on chemical exposure using specific OoCs of the principle organs. Additionally, the trainee should understand the possible implications of the application of the developed approach in toxicology and risk assessment.</p> <p>The Chemicals Safety and Alternative Methods Unit is part of the Directorate Health, Consumers and Reference Materials of the Directorate General Joint Research Centre (JRC) and is based in Ispra, Italy. For more information visit: https://ec.europa.eu/jrc/en/research-topic/alternatives-animal-testing-and-safety-assessment-chemicals and/or http://eurl-ecvam.jrc.ec.europa.eu/</p> <p><u>Qualifications:</u></p> <p><u>Essential:</u></p> <ul style="list-style-type: none"> • Master’s degree in computational toxicology, computational chemistry, pharmacology toxicology, chemistry, biotechnology, biology, related fields. • Programming skills in R • Good level of English (level B2). <p><u>Advantage:</u></p> <ul style="list-style-type: none"> • Modelling experience • Understanding of biology, bone tissue, organ on a chip and IVIVE. <p><u>For general eligibility requirements, please read the rules governing the traineeship scheme of the JRC:</u></p> <p>https://ec.europa.eu/jrc/en/working-with-us/jobs/temporary-positions/jrc-trainees</p>
Institute/Directorate Unit	<p>Directorate F – F.3 – Chemical Safety and Alternative Methods Unit</p> <p>Further information: https://eurl-ecvam.jrc.ec.europa.eu/</p>
Indicative duration	5 months
Preferred starting date	As soon as possible
JRC Site	Ispra
Country	Italy
<u>JRC contact details</u>	<p>For any technical problems with your application, please contact: HR-AMC8-RECRUITMENT-TOOLS-SUPPORT@ec.europa.eu</p>