



2017-IPR-F-000-9411

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>The five-month traineeship position will give support to ongoing activities in the unit and EURL ECVAM in relation to the use and development of computer-based methods as an alternative to animal testing.</p> <p>The trainee will have the opportunity to collaborate to a development of a mini-project while being trained on the use of alternative methods to animal testing for chemical safety assessment, 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 support the development of an approach for extrapolating OoC data to in vivo kinetics and toxicity by using mathematical models. The initial task will include a literature search to gather information and understand the current state of science on</p>
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	<p>chemical exposure and kinetics using specific OoCs of the principle organs.</p> <p>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, fluid dynamics, 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>