



2018-IPR-E-000-010146

**Analysis of chemical accidents for  
lessons learned and emerging risks**

**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 MAHB sector within the Technology Innovation in Security Unit provides policy support and performs application-oriented research on the control of major industrial hazards involving dangerous substances in association with EU disaster prevention policy and in particular, implementation of the Seveso Directive. Its work includes the development of studies, methodologies and tools for accident analysis, risk assessment and promoting best practices, with the aim of improving methods and strategies for preventing accidents and mitigating their consequences.

In the frame of the 2018 Work Programme, the sector analyses chemical accident trends and lessons learned. This work supports a number of EU policy areas, including fulfillment of Commission obligations within the Seveso Directive to disseminate lessons learned from chemical accidents, but also in assessing impacts and emerging risks as a contribution to EU collaborations with UN bodies and OECD.

The successful candidate will, in close cooperation with the MAHB staff, contribute to the forensic analysis of selected types of chemical accidents by identifying relevant accidents in the EU and other open sources, studying scientific literature, and relevant investigation and post-accident reports, and through application of accident

	<p>analysis models to selected accidents. The trainee will produce analyses that support both scientific research and practical application of lessons learned for enforcement authorities and operators. The trainee will learn how to create a database from a mix of qualitative and quantitative data, look for patterns and research causality for a subset of chemical accident types, and how to identify potential lessons learned.</p> <p><b>Essential:</b></p> <ul style="list-style-type: none"> <li>• The candidate should have or should be close to attaining (the purpose of the training must be directly related to the subject of the thesis) a university degree in engineering or physics.</li> <li>• Good analytical skills</li> <li>• Good knowledge of spoken and written English (Level B2)</li> </ul> <p><b>Advantage:</b></p> <ul style="list-style-type: none"> <li>• Familiarity with chemical accidents or causality and/or impacts and principles of process safety and/or other types of technological risk</li> </ul> <p><u>For general eligibility requirements, please read the rules governing the traineeship scheme of the JRC:</u></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>Directorate / Unit</b>	E. Space, Security and Migration E.2
<b>Indicative duration</b> <hr/>	5 months
<b>JRC Site</b>	Ispra
<b>Country</b>	Italy
<b>JRC contact details</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>