



2021-IPR-J-000-017288

**Trainee on gamma spectrometry
measurements**

<p>Position for:</p> <p>Trainee on gamma spectrometry measurements</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>Calibration of gamma spectrometry detectors used for characterising materials potentially contaminated by gamma-emitting radionuclides is a factor of paramount importance since the metrological traceability of the measurements carried out is the foundation of any reliable characterisation process. The candidate will help LMR in designing both several “dummy” standard one (1) m³ containers and a program for validating the test method in use at the laboratory employing gamma spectrometry monitoring system (GSMS) on potentially clearable material. More specifically:</p> <p>He/She will identify, in cooperation with the LMR radiometric sector responsible, the filling materials of the standard containers, in order to cover the whole expected density range of the real materials;</p> <p>He/She will draft, in cooperation with the LMR radiometric sector responsible, the test method to be used for characterising potentially clearable material using GSMS;</p> <p>He/She will design, in cooperation with the LMR quality and radiometric sectors’ responsables, a program of validation of the test method;</p> <p>He/She will perform, in cooperation with the other technicians of the LMR radiometric sector, the measurements optimizing the operative conditions and the relevant parameters.</p>
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	<p><u>Qualifications:</u></p> <p>Master’s degree in physics, chemistry, nuclear engineer or equivalent obtained in the last two years or willing to perform the work thesis for gaining the master’s degree in the same disciplines listed before.</p> <p><u>Essential:</u></p> <p>Sound knowledge of radiometric techniques.</p> <p>Candidates from Member States must be independent users of at least two Community languages, one of which should be one of the European Commission procedural languages (English, French or German). The required level of the second language is B2 according to the CEFR5 (Common European Framework of Reference for Languages: Learning, Teaching Assessment).</p> <p>Candidates from non-Member States must be independent users of at least one of the European Commission procedural languages (English, French or German). The required level of the language is B2 according to the CEFR (Common European Framework of Reference for Languages: Learning, Teaching, Assessment).</p> <p><u>Advantage:</u></p> <p>Laboratory experience and/or knowledge of Montecarlo code.</p> <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>
Unit /Directorate	Directorate J Sector J.002
Duration	5 months
Preferred starting date	As soon as possible
JRC Site	Ispra
Country	Italy

JRC contact details

For any technical problems with your application, please contact:

HR-AMC8-RECRUITMENT-TOOLS-SUPPORT@ec.europa.eu