



2018-PTT-G-000-010524

**Sample preparation and nanoindentation testing**

<p><b>Position for:</b></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: <a href="http://www.jrc.ec.europa.eu">http://www.jrc.ec.europa.eu</a></p> <p><b><u>Short description of activity:</u></b></p> <p>The JRC is involved in several international projects with the aim to develop new methodologies for (micro-)mechanical testing in quasi-static and dynamic modes, at room temperature and high temperatures. In particular, nanoindentation is used as a mechanical testing technique that allows extracting local information of the mechanical properties of materials, such as hardness and elastic modulus. In this context, we are looking for a trainee to assist in the preparation of specimens and in the operation of equipment to set-up experiments, program and launch data acquisition matrices. The trainee will also perform post-processing of data, prepare data analysis reports and store the data in a materials database. A significant share of the work will be carried out in the laboratory followed by statistical analysis and data management.</p> <p><b><u>Qualifications:</u></b></p> <p>We are looking for a trainee who has at least a bachelor degree in physics, materials science, mechanical engineering or a similar subject. If there is interest and with the agreement of the candidate's university faculty, the work could be carried out in the framework of a master thesis.</p> <p><b><u>Essential:</u></b></p> <p>Knowledge of materials science, physics or engineering.</p>
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	<p>Good knowledge of English (B2 level)</p> <p><u>Advantage:</u>  Knowledge in mechanical testing or mechanical properties of materials.  Knowledge of metallographic preparation (grinding, polishing) or microstructural analysis (electron microscopy).</p> <p><b><u>For general eligibility requirements, please read the rules governing the traineeship scheme of the JRC:</u></b></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>Unit /Directorate</b>	<p>G.1.4 - Nuclear Reactor Safety and Emergency Preparedness  Directorate G – Nuclear Safety and Security</p> <p>Further information:  <a href="https://ec.europa.eu/jrc/en">https://ec.europa.eu/jrc/en</a></p>
<b>Indicative duration</b>	5 months
<b>Preferred starting date</b>	As soon as possible
<b>JRC Site</b>	Petten
<b>Country</b>	THE NETHERLANDS
<b><u>JRC contact details</u></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>