



2018-IPR-E-000-9724

**Training on the  
seismic and energy retrofitting  
of existing buildings**

**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 Safety & Security of Buildings Unit is seeking a trainee to be integrated in the team dealing with the seismic risk and energy efficiency assessment of the urban building stock across the European Union. We are looking for a trainee to contribute to the development of novel retrofitting concepts enabling the simultaneous seismic and energy retrofitting of the existing EU buildings. The training will explore the economic feasibility and financial benefits of the combined seismic plus energy retrofitting of the existing building stock, at urban and national level.

To achieve this goal an inventory of the EU buildings according to established taxonomies regarding their energy efficiency and seismic performance will be exploited. This will allow calculating key parameters such as the expected annual loss (EAL of consumed energy or expected seismic loss) and the return period of the combined retrofitting intervention. The trainee will collaborate to the preparation of a technical report at the end of his/her stay.

**Qualifications:**

**Essential:**

- University degree in civil/structural engineering and an MSc in a field relevant to the topic of the call. (Applications from students currently

	<p>preparing a thesis for an MSc degree are eligible – the thesis should match with the project subject).</p> <ul style="list-style-type: none"> <li>• Good knowledge of the English language (level B2)</li> </ul> <p><b><u>Advantage:</u></b></p> <p>Previous research or professional experience relevant to the topic of the call</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>Space, Security &amp; Migration Safety &amp; Security of Buildings</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>	Ispra
<b>Country</b>	Italy
<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>