



EUROPEAN COMMISSION  
DIRECTORATE-GENERAL  
JOINT RESEARCH CENTRE  
Directorate R - Resources  
Human Resources

2016-IPR-E-000-8006

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

**Position for:**

Trainee

**Short description of activity:**

As the science and knowledge service of the Commission, the mission of DG 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>.

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 on a novel retrofitting concept for the existing EU building stock. The training will investigate techniques using advanced composite materials for simultaneous seismic and energy retrofitting, including: (i) development of models for simulating retrofitted buildings subjected to seismic loading, (ii) a case study combining seismic and energy retrofitting to explore the method's feasibility and cost effectiveness. The trainee will prepare a technical report at the end of his/her stay.

**Qualifications:**

**Essentials:**

Candidates must hold a University degree in civil/structural engineering and an MSc in a field relevant to the topic of the call. Applications from students currently preparing a thesis for an MSc degree are eligible. The thesis should match to the subject of the call.

A good knowledge of the English language (level B2) is essential.

	<p>Candidates must have good analysing and problem-solving skills.</p> <p><b>Advantage:</b> Previous research or professional experience relevant to the topic of the call will be considered an advantage.</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>Directorate Unit</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:JRC-ESRA@ec.europa.eu">JRC-ESRA@ec.europa.eu</a></p>