



2015-IPR-H-000-6193

**Support to the analysis of regional trends  
with LUISA Land Function Indicators**

**Position for:**

Trainee

**Short description of activity:**

The 'Land-Use-based Integrated Sustainability Assessment' modelling platform (LUISA) is primarily used for the ex-ante evaluation of EC policies that have a direct or indirect territorial impact. It is based on the concept of 'land function' for cross-sector integration and for the representation of complex system dynamics. Beyond a traditional land use model, LUISA adopts a new approach towards activity-based modelling based upon the endogenous dynamic allocation of population, services and activities.

The ultimate product of LUISA is a set of territorial indicators that can be grouped and combined according to the 'function' of interest and/or to the sector under assessment.

Specific focus of the traineeship should lie on providing support to the analysis of territorial characteristics (regional profiles) based on the outputs of the model, in terms of land function indicators and of the main drivers of the simulated scenarios.

Potential links with other ongoing projects to learn about the exploitation of identified synergies in an applied context will be explored during the traineeship.

**Qualifications:**

Essential.

Knowledge of statistical modelling.

Good knowledge of written and spoken English (level B2).

Desirable.

Interest and knowledge in geography or geosciences or sustainable development

	<p>(preferably at the level of bachelor or master degree).</p> <p>Knowledge on sectoral and combined indicators.</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>
<p><b>Institute/Directorate</b></p> <p><b>Unit</b></p>	<p>Institute for Environment and Sustainability (IES)</p> <p>Sustainability Assessment Unit (H08)</p> <p>Further information:  <a href="https://ec.europa.eu/jrc/en/institutes/ies">https://ec.europa.eu/jrc/en/institutes/ies</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></p> <p><a href="mailto:JRC-ESRA@ec.europa.eu">JRC-ESRA@ec.europa.eu</a></p>