



2017-IPR-D-000-9132

**Benchmarking different crowd sourcing apps to map and locate crops**

**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 Food Security Unit contributes scientific expertise towards a more effective and efficient management of EU policies related to agriculture and food security, including the Common Agriculture Policy (CAP).

The trainee position and research activities are part of the H2020 funded project LandSense. The overall aim of the LandSense project is to build an innovative citizen observatory in the field of Land Use and Land Use Change, which collects data both actively (through citizens) and passively (from authoritative, open access, and other citizen-based initiatives).

The trainee will contribute to the agricultural component of the project and in particular on benchmarking different mobile crowd sourcing applications currently used to map, locate and collect crop data. This ground data is valuable information specifically in the context of the development of services underpinned by observations made with the Copernicus Sentinel suite of satellites.

By accomplishing concrete and diverse tasks in an innovative context, the trainee will develop skills and expertise in fields including geodesy, remote sensing GIS and agronomy. In particular, the trainee will develop measures to benchmark apps, possibilities for data sharing and data re-use, and perform practical field-based benchmarking tests. Moreover, support

	<p>will be given to help the trainee to write the findings up in a scientific paper.</p> <p><b><u>Qualifications:</u></b></p> <p><b><u>Essential:</u></b></p> <ul style="list-style-type: none"> <li>• BSc University degree in agronomy, data sciences, environmental sciences or related fields.</li> <li>• Basic remote sensing analysis, practical geodesy skills (use of GPS) and GIS skills are required.</li> <li>• Good knowledge of spoken and written English (B2 level minimum).</li> </ul> <p><b><u>Advantage:</u></b></p> <ul style="list-style-type: none"> <li>• Experience with crowd sourcing, citizen science, coding, open data and data analysis would be a plus.</li> <li>• Field experience in agriculture (ability to monitor agricultural practices, crop types and plant development stages) is an asset.</li> </ul> <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>Institute/Directorate Unit</b>	<p>Directorate D - Sustainable Resources, Food Security Unit</p> <p>Further information: <a href="https://ec.europa.eu/jrc/en/mars">https://ec.europa.eu/jrc/en/mars</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>