



2017-IPR-D-000-8484

**Crop phenology and remote sensing data
time series analysis**

<p>Position for:</p> <p>Trainee</p>	<p>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.</p> <p>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</p> <p><u>Short description of activity:</u></p> <p>The Food Security Unit is developing methods for operational crop and pasture monitoring in order to provide near real-time information on food insecure regions (mainly sub-Saharan Africa) to decision makers such as the European Commission, UN organizations and national institutions in charge of food security.</p> <p>Among these, the team is currently developing the decision support system ASAP (Anomaly hot Spot of Agricultural Production), a semi-automatic system aimed at providing early warning messages about agricultural drought globally.</p> <p>Within this framework, the trainee position would contribute to:</p> <ul style="list-style-type: none">- harmonization of FAO crop calendars information available at country level or agro-ecological zones with EO-based derived phenology and time series analysis derived at the ASAP spatial unit (i.e. first subnational level);- test impact of different consolidations of NDVI smoothing on the entire historical time series of the MODIS instrument (2002-current data) on NDVI anomaly computation
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	<p><u>Qualifications:</u></p> <p><u>Essential:</u></p> <p>The trainee must have a University degree in agronomy, environmental sciences or related fields.</p> <p>Basic remote sensing analysis and GIS skills are required.</p> <p>Good knowledge of spoken and written English is essential.</p> <p><u>Advantage:</u></p> <p>Experience with studies of vegetation monitoring would be a plus.</p> <p><u>For general eligibility requirements, please read the rules governing the traineeship scheme of the JRC:</u></p> <p>https://ec.europa.eu/jrc/en/working-with-us/jobs/temporary-positions/jrc-trainees</p>
Institute/Directorate Unit	<p>Directorate D - Sustainable Resources, Food Security Unit FoodSec group</p> <p>Further information: http://mars.jrc.ec.europa.eu/mars/About-us/FOODSEC</p>
Indicative duration	5 months
Preferred starting date	As soon as possible
JRC Site	Ispra
Country	Italy
<u>JRC contact details</u>	<p>For any technical problems with your application, please contact: JRC-ESRA@ec.europa.eu</p>