



2015-IPR-G-000-6115

**Urban Green Detection for the European Settlement Map**

<p><b>Position for:</b></p> <p>Trainee</p>	<p><b><u>Short description of activity:</u></b></p> <p>The successful candidate will carry out scientific and technical tasks in the Global Security and Crisis Management Unit, in particular he/she will contribute to better application and use of the European Settlement Map (ESM), in the context of the collaboration with DG REGIO, initiated through a service agreement in 2013, and continued through to 2017, the project URBA (Urban and Regional Built-up Analysis).</p> <p>In detail, the trainee will contribute to the enhancement of the in-house urban green detection method using ESM data (ESMUG) and to the validation of the ESMUG data in the following ways: i) manual definition of an NDVI threshold over the Copernicus dataset (CORE_003) using robust sampling methods ii) the feasibility of deriving data characteristics before pan-sharpening on the Copernicus (CORE_003) dataset to be used in the calculation of a green index iii) checking the compatibility of the service agreement for the provision of the Copernicus dataset with the characteristics of the delivered product, in light of the missing specifications for certain bandwidths of the final product.</p> <p><b><u>Qualifications:</u></b> <u>Essential.</u> Academic background in remote sensing, engineering, or urban and territorial planning. Advanced experience in NDVI calculations. Experience with data validation methods; experience with statistical regression analysis. Excellent skills with respect to: communication; strong ability to search through data, analyse, and summarise critical information. Knowledge of ENVI, MATLAB, ArcGIS. Good command of English (level B2).</p>
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	<p><u>Advantage.</u> Experience in using NDVI for urban analysis.</p> <p>Knowledge of GHSL technology.</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>Institute/Directorate Unit</b>	<p>IPSC G02 URBA Further information: <a href="http://ipsc.jrc.ec.europa.eu">http://ipsc.jrc.ec.europa.eu</a></p>
<b>Indicative duration</b>	5 months
<b>Preferred starting date</b>	01/02/2016 or 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>