



2018-IPR-E-000-010673

**Improving the Copernicus EMS Global
Flood Awareness System**

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 Copernicus Emergency Management Service (Copernicus EMS) is part of the Copernicus Programme, which is an EU Programme managed by the European Commission. The Copernicus EMS supports among others crisis managers, civil protection and hydro-meteorological authorities with warnings, risk and impact assessments as well as ad-hoc geospatial analysis before, during and after natural disasters and man-made crisis. We are looking for a trainee to contribute to the improvement of the Global Flood Awareness System (GloFAS), which is part of the early warning component of the Copernicus EMS.

The trainee's primary collaboration will involve the integration of satellite-based, operational leaf area index and water bodies data from the Copernicus Global Land Service into the global hydrological model set up of GloFAS. The trainee would contribute to this effort by (1) collecting and preparing the required data sets as input into the hydrological model LISFLOOD; (2) performing LISFLOOD simulations with the prepared data; and (3) evaluating the hydrological skill of the simulations. The trainee should further contribute to the reporting and documentation of the performed activities in internal reports and peer reviewed journal publications, under supervision of the traineeship adviser.

	<p><u>Qualifications:</u></p> <p><u>Essential:</u></p> <ul style="list-style-type: none"> • University degree in a field related to Earth, Ocean or Atmospheric Sciences or Engineering. • Knowledge of hydrological modelling • Good programming skills in R or Python • Good knowledge of ArcGIS or similar software for spatial data preparation, modification and analysis • Advanced written skills (ideally the candidate has already contributed to a published document) • Good knowledge of English language (B2 level) <p><u>Advantage:</u></p> <ul style="list-style-type: none"> • Knowledge of LINUX and bash programming would be an advantage. • Good knowledge in hydrology-related statistics. <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>
Unit /Directorate	<p>Directorate Space, Security and Migration Disaster Risk Management Unit – E.1 FLOODS</p> <p>Further information: https://ec.europa.eu/jrc/en/search/site/flood</p>
Indicative duration	5 months
JRC Site	Ispra
Country	Italy
<u>JRC contact details</u>	<p>For any technical problems with your application, please contact: HR-AMC8-RECRUITMENT-TOOLS-SUPPORT@ec.europa.eu</p>