EUROPEAN COMMISSION
DIRECTORATE-GENERAL HUMAN RESOURCES AND SECURITY
Directorate HR.AMC –Account management Centre
HR.DDG. AMC 8

2018-IPR-E-000-9504	**Developing and assessing the European Flood Awareness System at a high-resolution**

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 European Flood Awareness System (EFAS), which is part of the early warning component of the Copernicus EMS. The trainee's primary duties involve supporting the development and application of LISFLOOD (EFAS's underlying hydrological model) for modelling high resolution discharges at a daily/sub-daily time step at European scale. The trainee would contribute to this effort by collecting all the required data sets at high-resolution and by running the model on a number of test catchments, including an evaluation of the model performance. The trainee should further contribute to the reporting of the performed activities in internal reports and peer reviewed journal publications.

	Qualifications: **Essential:** • University degree in a field related to Earth, Ocean or Atmospheric Sciences or Engineering. • Knowledge of hydrological modelling, Geographic Information Systems • Strong analytical, and good programming skills • Good oral and written communication skills in English (level B2). **Advantage:** • Knowledge of Python, R, ArcGIS and basic LINUX are highly appreciated. • willingness to publish the outcome of this study in a peer-review journal The successful applicant is expected to be creative and motivated and be able to work independently. **For general eligibility requirements, please read the rules governing the traineeship scheme of the JRC:** https://ec.europa.eu/jrc/en/working-with-us/jobs/temporary-positions/jrc-trainees
Institute/Directorate Unit	Directorate Space, Security and Migration Disaster Risk Management Unit – E.1 FLOODS Further information: https://ec.europa.eu/jrc/en/search/site/flood
Indicative duration **Preferred starting date**	5 months As soon as possible
JRC Site **Country**	Ispra Italy
JRC contact details	**For any technical problems with your application, please contact:** HR-AMC8-RECRUITMENT-TOOLS-SUPPORT@ec.europa.eu