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

2021-IPR-C-000-017588 **Coastal vulnerability analysis**

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 Directorate for Energy, Transport and Climate of the Joint Research Centre (JRC) of the European Commission** has the mission to provide support to EU policies related to energy, transport, and climate ***The Economics of Climate Change, Energy & Transport Unit*** performs economics based research in support of EU energy, transport and climate-related policies. This incorporates the assessment of the costs of coastal flooding along Europe's coastline and worldwide. We are looking for a trainee to assist in developing datasets and methodologies related to beach-type classification, as well as the presence and type of coastal protection in place. The work involves assisting in the analysis of remote sensing data, global digital elevation models, exposure maps of population and land use, and combining them using machine learning techniques. The result will be an improved understanding of the vulnerability of the global coastline to floods and erosion and allow proposing site-specific adaptation measures. **Qualifications:** The successful candidate should have completed his/her university studies (at least Bachelor level) in the area of engineering, applied mathematics, informatics, geology or similar. A good oral and written knowledge of English is required (level B2).

	Essential: Good command of MS office (Excel and Access) Advantage: • Experience in spatial data analysis • Scientific programming skills • Experience in machine learning techniques • Demonstrated knowledge of data visualisation and user experience principles • Background on nearshore processes (e.g. flooding, beach erosion) **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
Unit /Directorate	Unit C6 Economics for Climate Change, Energy and Transport JRC Directorate C - Energy, Transport and Climate Further information: http://ses.jrc.ec.europa.eu/
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