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

2021-IPR-C-000-017668	**Quality control and data analysis of greenhouse gas concentrations**

Position for: **Trainee** **Type I or II**	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. 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 . The Air and Climate Unit of the Directorate for Energy, Transport and Climate comprises about 50 staff, and supports the EU policy on air quality and climate change including the EU Green Deal. It is based at the JRC site in Ispra, Italy. **Short description of activity:** The Air and Climate Unit offers a Trainee position to be involved in research activities dedicated to Greenhouse Gas (GHG) . The Unit is operating a class-2 atmospheric station in the framework of ICOS (Integrated Carbon Observation System) research infrastructure. Located at JRC-Ispra site premises, it measures continuously atmospheric concentration of carbon dioxide, and methane using state-of-the-art instrumentation. GHG measurements are complemented by measurements of carbon monoxide, radon and meteorological parameters. Such high quality, long-term in-situ observations allow trend analyses, investigations of transport processes, as well as the allocation and quantification of emissions and their trends. Maintaining high quality measurements over the long term is a challenge and a necessity for these atmospheric data to be used in global carbon cycle study. For this purpose, all ICOS atmospheric stations have to follow standardized measurement protocols and perform regular tests and data quality check.

	The trainee will learn about quality management procedures applied to atmospheric measurement of GHG and methodologies for data analysis of GHG concentrations. To that end the candidate will learn to perform: • quality check of GHG concentrations and meteorological observations following ICOS procedures and of Near Real Time data sent to ICOS Atmosphere Thematic Centre; • analysis of radon concentration data in order to estimate regional emissions of GHG through the radon tracer method; • trend and footprint analyses of GHG concentrations with tools available at the ICOS Carbon Portal. At the end of the traineeship period the trainee will produce an internal report and present the results of his/her activities. **<u>Qualifications Essential:</u>** University degree in a relevant field of environmental sciences, physics, or engineering. In case of type I trainee, the purpose of the training must be directly related to the subject of the BA thesis he/she is preparing. Good command of English (minimum level B2). **<u>Advantage:</u>** Knowledge on atmospheric science and GHG. Good skills in data analysis.
Directorate - Unit	Directorate for Energy, Transport and Climate C05 – Air & Climate
Duration **Preferred starting date**	5 months 01/10/2021
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