



2017-IPR-C-000-8886

**Country-specific inventory time-series of  
F-gas emissions**

<p><b>Position for:</b></p> <p>Trainee</p>	<p>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.</p> <p>The JRC is located in 5 Member States (Belgium, Germany, Italy, the Netherlands and Spain). Further information is available at: <a href="http://www.jrc.ec.europa.eu">http://www.jrc.ec.europa.eu</a></p> <p><b>Short description of activity:</b> The “Air and Climate Unit” (C05) of the Directorate for Energy, Transport and Climate offers a Trainee position for a graduate or MS to be involved in research activities of the Unit, giving support to the Emissions group. The Unit performs scientific research on the links between air pollution and climate change to inform policy makers about potential synergies and trade-offs. In this context, the Unit operates EDGAR the Emissions Database for Global Atmospheric Research. EDGAR provides global past and present day anthropogenic greenhouse gas emissions by country and sector both as time series and grid-maps (<a href="http://edgar.jrc.ec.europa.eu/index.php">http://edgar.jrc.ec.europa.eu/index.php</a>).</p> <p>The objective of this study is to improve and update the Fluorinated (F) -gas emissions for the full time period 1970-2014, taking into account existing activity data from industry and from the reporting to the UN Framework Convention on Climate Change. The activity data and emission factors will be combined to new emission time series for each country. These have to be compared to the existing EDGARv4.2 F-gas time-series. Then, the country-specific F-gas emissions need to be distributed on global grid-maps of 0.1deg x 0.1deg.</p> <p>The trainee will be trained and contribute to:</p> <ul style="list-style-type: none"><li>- A derivation of new activity data for the F-gas sectors (after literature study and</li></ul>
--	---

	<p>internet search).</p> <ul style="list-style-type: none"> <li>- Calculation of the emission time-series per country for each F-gas.</li> <li>- Distribution of the F-gases on a grid-map of 0.1deg x 0.1deg.</li> <li>- Draft of final documentation and presentation of the results.</li> </ul> <p><b><u>Qualifications:</u></b></p> <p><b><u>Essential:</u></b></p> <ul style="list-style-type: none"> <li>- university degree in chemistry, environmental sciences or engineering</li> <li>- Experience with databases (e.g. practicum) and knowledge on industrial processes</li> <li>- Good knowledge of English (level B2)</li> </ul> <p><b><u>Advantage:</u></b></p> <ul style="list-style-type: none"> <li>• Interest in climate and air pollution research within an international emissions team.</li> <li>• Knowledge on emission inventory compilations</li> </ul> <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>Directorate for Energy, Transport and Climate C05 – Air &amp; Climate</p> <p>Further information: <a href="https://ec.europa.eu/jrc/en/research-topic/air-quality">https://ec.europa.eu/jrc/en/research-topic/air-quality</a></p>
<b>Indicative duration</b>	5 months
<b>Preferred starting date</b>	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>