



2012-IPR-H-30-000-0804

**Inverse modelling of atmospheric
greenhouse gases**

<p>Position for:</p> <p>CATEGORY 30</p>	<p>The Air and Climate Unit performs analyses of global and European emissions of atmospheric greenhouse gases, based on atmospheric observations and inverse modelling. For this purpose, it continuously develops and operates a four-dimensional variational (4DVAR) inverse modelling system, based on the 3D atmospheric zoom transport model TM5.</p> <p>We are looking for a post-doctoral researcher to contribute to the further development of the TM5-4DVAR inverse modelling system and to perform studies of global and regional CH₄ emissions using in-situ and satellite observations.</p> <p>Qualifications:</p> <p>The ideal candidates should have a PhD in a field related to meteorology, physics, mathematics, environmental sciences (or a University degree <u>and</u> 5 years of research experience in such a field after the university degree giving access to doctoral studies).</p> <p>Experience in the field of</p> <ul style="list-style-type: none">- atmospheric transport modelling- inverse modelling / data assimilation- scientific programming (UNI, Fortran, IDL) <p>is required.</p> <p>Knowledge of issues related to atmospheric greenhouse gas cycles is essential.</p> <p>Good knowledge of spoken and written English is required. The knowledge of another community language would be an advantage.</p> <p>Relevant publications and presentations should be highlighted.</p>
<p>Institute/Directorate Unit Action/Task force</p>	<p>Institute for Environment and Sustainability Air and Climate Biosphere, Climate and Human Interactions</p> <p>Further information: http://ies.jrc.ec.europa.eu/the-institute/units/air-and-climate-unit.html</p>

Indicative duration	36 months
Preferred starting date	January 2013
JRC Site	Ispra
Country	Italy
Rules	Grantholders: http://ec.europa.eu/dgs/jrc/downloads/jrc_granholder_rules.pdf