

**PROJECT REFERENCE NUMBER: IES-2012-301201**

<p>Post-Doctoral Research Project    2012</p>	<p><b>Inverse modelling of atmospheric greenhouse gases</b></p>
<p>1. Short description of the project</p> <p>2. Objectives</p>	<p>The Air and Climate Unit performs analyses of global and European emissions of atmospheric greenhouse gases, based on atmospheric observations and inverse modeling. For this purpose, it continuously develops and operates a four-dimensional variational (4DVAR) inverse modeling system, based on the 3D atmospheric zoom transport model TM5.</p> <p>We are looking for 2 researchers to contribute to the further development of the TM5-4DVAR inverse modeling system and to perform studies of global and regional CH<sub>4</sub> and N<sub>2</sub>O emissions using in-situ and satellite observations.</p> <p>The ideal candidates should have a PhD in a field related to meteorology, physics, mathematics, environmental sciences (or a University degree and 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"> <li>- atmospheric transport modelling</li> <li>- inverse modelling / data assimilation</li> <li>- scientific programming (UNI, Fortran, IDL)</li> </ul> <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>The Joint Research Centre is an equal opportunity employer and is committed to increasing the diversity of its staff. It welcomes nominations of and applications from women and minority groups.</p>

Duration of contract	24 months
Start/ending date of data	April 2012
Principal Investigator	P. Bergamaschi <peter.bergamaschi@jrc.ec.europa.eu >

Further information can be found at:  
<http://ies.jrc.ec.europa.eu/the-institute/units/climate-change/bioclimate-action.html>

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