



2015-IPR-H-000-4895

Trainee position on ship emissions from inland waterways

<p>Position for:</p> <p>Trainee</p>	<p>Short description of activity:</p> <p>The Air and Climate Unit (H02) of the Institute of Environment and Sustainability (IES) offers a Trainee position to be involved in research activity related to air emissions. The Unit performs scientific research on the links between air pollution and climate changes to inform policy makers about potential synergies and trade-offs. In the framework of the Danube Air Nexus project, the unit estimates emissions from transport sector in the Danube region and explores the consequences of modal shift by evaluating ex-post scenarios. The Emission Database for Global Atmospheric Research (EDGAR) contains independent emission time series from 1970-2010 for all key sectors and subsectors considering the mitigation measures and grids these on 0.1x0.1 degree resolution.</p> <p>The objective of this research activity is to calculate the NO_x, SO₂ and PM_{2.5} emissions from road transport and inland waterways for the Danube region; emissions from these sectors have transboundary characteristics, which require an integrated and consistent approach to support the macro-regional policy defined in the Danube strategy. Further, emission scenarios will be established to analyse benefits and drawbacks of modal shift (ship/truck) in transport sector.</p> <p>It is foreseen that the trainee will assist in carrying out:</p> <ul style="list-style-type: none">- A literature review on ship emissions focusing on inland waterways and in port emissions, case studies in particular- A literature review on ship engine, fuel, technology and consequences of ship-ageing on emissions- Setting-up a collection of fleet-specific emission factors and info on activity data and technologies associated to them- A final documentation including a comprehensive comparison and presentation of the results.
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	<p>Qualifications: This traineeship is suited for students who have a master degree in physical science or engineering science focusing on air pollution and marine/river transport. Knowledge on air emissions estimation associated to ship engines will be an asset.</p> <p>Good knowledge of English (level B2) is required.</p> <p><u>For general eligibility requirements, please read the rules governing the traineeship scheme of the JRC:</u></p> <p>https://ec.europa.eu/jrc/en/working-with-us/jobs/temporary-positions/jrc-trainees</p>
Institute/Directorate Unit	<p>Institute for Environment and Sustainability H02 – Air & Climate</p> <p>Further information: https://ec.europa.eu/jrc/en/research-topic/air-quality</p>
Indicative duration	5 months
Preferred starting date	01/10/2015
JRC Site	Ispra
Country	Italy
<u>JRC contact details</u>	<p>For any technical problems with your application, please contact: JRC-ESRA@ec.europa.eu</p>