

A fully funded PhD position is available to carry out experimental studies on the release of atmospheric nitrogen bearing trace gases from polar snow. The focus will be on nitrous acid gas (HONO), a particularly reactive nitrogen species, which has been observed previously at surprisingly high levels in air above snow, suggesting a large snowpack source may be present. The aim of this project is to quantify the HONO snow source in the lab using natural snow samples as well as at the BAS Halley research station in coastal Antarctica (75°S). Antarctic field work is intended but subject to the inherent logistical or weather related uncertainties. This project is offered as a CASE award, as a collaboration between the University of Birmingham (Dr Bill Bloss) and the British Antarctic Survey in Cambridge (Dr Markus Frey). The student will be registered at Birmingham, but will spend substantial time at BAS in Cambridge for instrument and fieldwork training.

Further project details: <http://www.birmingham.ac.uk/generic/centa/documents/UB4.pdf>

How to apply: <http://www.birmingham.ac.uk/generic/centa/phds/index.aspx>

Requirements:

- master degree or equivalent in chemistry, physics, or a field of the environmental/earth sciences
- strong experimental skills
- good team working skills and fluency in English
- funded studentships are available to UK and EU candidates that meet NERC's requirements for both academic qualifications and residential eligibility.

Duration: 3.5 years starting in October 2015

Closing date: January 31 2015. Shortlisted applicants will be interviewed on the week commencing 16 February

For informal discussion of the project please get in contact with Dr Markus Frey ([maey@bas.ac.uk](mailto:maey@bas.ac.uk)) or Dr Bill Bloss ([w.j.bloss@bham.ac.uk](mailto:w.j.bloss@bham.ac.uk)).