



Postdoctoral Associate in Thermoacoustics



A post-doctoral position is available for candidates interested in the area of application of optical diagnostics to oxygen pulverized coal combustion. The position is to be held for 18 months.

Oxyfuel coal combustion holds promise for simplifying CO₂ sequestration and management in power plants. Diagnostics in realistic geometries is difficult due to the high density of particles. However, in some regions of the flame where the particle density is low, optical diagnostics can work and use the particles can act as targets for laser diagnostics. The goal of the project is to use imaging and line laser diagnostics (primarily PIV and chemiluminescence) for characterizing the flow and reaction of coal particles and oxygen/inert mixtures on the upper regions of fluidized beds.

The candidate will perform part of her/his research activities in the Cambridge Combustion Research Centre (http://www-diva.eng.cam.ac.uk/energy/combustion_intro.html), with state of the art experimental facilities, and part at the Leeds Combustion Research Centre (<http://www.engineering.leeds.ac.uk/erri/research/advanced.shtml>). The project is a multi-institution consortium involving the universities of Leeds, Cambridge, Cranfield, Kent, Nottingham and Imperial College, and sponsored by EPSRC several industry collaborators.

Eligibility

The application is open to nationals of any country. Candidates should hold a PhD in mechanical, chemical or aeronautical engineering, or related area, and have an outstanding record in research.

Further details may be obtained from Prof. Simone Hochgreb, Department of Engineering, Trumpington Street, Cambridge, CB2 1PZ, (Tel +44 1223 764098, email: simone.hochgreb@eng.cam.ac.uk), to whom a letter of application, CV, sample publications and list of references should be sent as soon as possible.

Further details may be viewed at <http://www-diva.eng.cam.ac.uk/pdocopps.html> . The cover sheet for applications, PD18 is available from <http://www.admin.cam.ac.uk/offices/personnel/forms/pd18/> Part I and Part III only, should be sent, with a letter and CV to Prof. Simone Hochgreb Department of Engineering, Trumpington Street, Cambridge, CB2 1PZ, (Tel +44 01223 764098, email simone.hochgreb@eng.cam.ac.uk).