

PhD Position

University of Liverpool (UK)

**Project: Plasma-catalytic destruction of environmental pollutants in waste gas streams**

The Technological Plasma Group in the Department of Electrical Engineering and Electronics at the University of Liverpool invites applicants for a full time PhD position in the area of plasma-catalysis for environmental pollution control.

In this project, a hybrid technology based on the combination of non-thermal plasma with heterogeneous catalysis (known as Plasma-Catalysis) will be used for the destruction of environmental pollutants (e.g. volatile organic compounds (VOCs)) in waste gas streams. A range of catalytic materials and processing parameters will be evaluated to understand the chemistry and synergistic mechanisms of the hybrid plasma-catalysis process and to determine the key parameters involved. This work will be carried out in close collaboration with the academic and industrial partners involved in the project.

**Applicants should be highly motivated and have:**

A minimum of an Upper Second Class degree in Chemistry, Engineering, Plasma Physics, or closely related disciplines;

A Masters degree is desirable;

Previous experience in the use of low temperature plasma, catalyst or gas analysis will be an advantage

It is intended that the post will begin on 1<sup>st</sup> March 2013 with a tax free £16,000 stipend per annum. The tuition fee at the 'home/EU' student rate will be fully covered by the project.

Interested candidates are encouraged to send their CV to Dr. Xin Tu ([xin.tu@liv.ac.uk](mailto:xin.tu@liv.ac.uk))

<http://www.liv.ac.uk/electrical-engineering-and-electronics/>