



The University of Manchester Light Alloys Portfolio Partnership

PhD Studentships in Advanced Light Alloy Research

To Start: From September 2005 – April 2006

Deadline for Applications: 30th October 2005

Stipend (tax-free) £12,000 per annum, plus up to £5000 additional funding per annum, depending on project sponsorship and qualifications.

The University of Manchester is seeking **high quality** candidates for PhD studentships within the School of Materials. These positions have arisen as a result of the light alloys group being successful in obtaining a £5.9M EPSRC Portfolio partnership award for research in "Light Alloys for Environmentally Sustainable Transport".

The Portfolio will involve a coordinated research programme that targets key enabling technologies, aimed at increasing the industrial application of light alloys, improving their efficiency and reducing their environmental impact. The project involves close collaboration with the aerospace and automotive industrial sectors.

Candidates will work within a team environment involving seven academic members of staff and must have a relevant honours degree with at least a 2.1 UK equivalent grade, as well as experience of one or more of the following research themes;

Surface engineering, corrosion and environmental protection (including functionalised surfaces, the fundamentals of film growth, and environmentally friendly replacement and novel conversion treatments), Joining (friction stir welding, process and microstructure modelling), advanced metal forming (including superplastic and creep forming), deformation microstructures, texture and recrystallisation, severe deformation and nano-grained materials, (including basic research in 3D deformation structures and modelling).

As well as having an excellent aptitude for research, applicants must be enthusiastic and have good communication, time management and team working skills.

Interested applicants should contact the School for further information at the address below or email their CV, including two referees,

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