



# The University of Manchester Light Alloys Portfolio Partnership

## Post Doctoral Fellowships in Advanced Light Alloy Research

**To Start:** From November 2005 – April 2006

**Salaries** will be in the range; £19,460 – £29,128 , at research Associate level, and £27,116 to £40 091 at Fellowship level (per annum)

The University of Manchester is seeking high quality candidates for Research Associate and Research Fellowships positions 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 Partnership will provide secure funding for up to five years and will involve a coordinated 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 PhD and/or relevant equivalent 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 research track record, applicants must have good communication, time management and team working skills. Candidates will be considered at both the Research Associate and Research Fellowship level. Research Fellows will be expected to demonstrate an aptitude for independent research, contribute to the management of a research theme, the training of PhD students, and undertake a portfolio of basic science and applied research projects.

**Deadline for Applications: 30th Sept to 30th Oct 2005, depending on project requirements**

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

Prof. P.B. Prangnell, the School of Materials at The University of Manchester, Grosvenor St Manchester M16HS,

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