

**CLASSIFIED**

## Positions Available

# Imperial College London

Department of Materials

## Lectureship in Materials

Salary range: minimum £37,740 per annum

*Imperial College is ranked in the top ten universities of the world, according to the 2006 Times Higher Education Supplement league tables*

Applications are invited for a lectureship in the 5A-rated Department of Materials. You will be expected to develop an international multidisciplinary research profile in the general field of Materials Science and Engineering including, but not limited to, Materials in Biomaterials, Energy, Environmental and Transportation fields.

You will be expected to contribute to undergraduate and postgraduate teaching in the department. You must have a PhD in Materials Science and Engineering or a related discipline and have demonstrated excellence in research at post doctoral level.

The post will be permanent and full-time and is available immediately.

Further details of the departmental research activities may be found at <http://www3.imperial.ac.uk/materials> Informal enquiries may be directed to the Head of Department, Professor Bill Lee ([w.e.lee@imperial.ac.uk](mailto:w.e.lee@imperial.ac.uk)).

Further Particulars and an application form can also be obtained from Darakshan Khan, email [d.khan@imperial.ac.uk](mailto:d.khan@imperial.ac.uk)  
Tel. +44 (0) 20 7594 6775, Imperial College London, Human Resources, Bessemer Building, South Kensington Campus, London SW7 2AZ, to whom five copies of the completed application (with curriculum vitae and the names and contact details of three referees) should be sent. Please quote ref: Lecturer in Materials on all correspondence.

**Closing date: 31 March 2007.**

Valuing diversity and committed to equality of opportunity

**Positions Available**

**FACULTY POSITION IN APPLIED PHYSICS**

The Applied Physics Program at Caltech invites applications for one tenure track position as assistant professor. We are seeking highly qualified candidates who are committed to a career in research and teaching. Exceptionally well-qualified candidates may be considered at the associate or full professor level. In addition to applicants from traditional areas including device and/or materials physics we are interested in applicants with interdisciplinary backgrounds spanning these and other areas such as biology and chemistry.

Interested applicants should submit an electronic application by visiting <http://www.eas.caltech.edu/search/aph>. You will be asked to upload the following pdf documents: CV, research statement, three publications, and the names and contact information for three references.

The term of the initial appointment is normally four years, and appointment is contingent upon completion of all the requirements for a Ph.D.



**CALIFORNIA INSTITUTE OF TECHNOLOGY**  
**Division of Engineering and Applied Science**  
*Caltech is an Equal-Opportunity/Affirmative-Action Employer.*  
*Women, minorities, veterans, and disabled persons are encouraged to apply.*



The Ruhr University Bochum invites applications for the positions of

**three Directors (W3) of the Interdisciplinary Centre for Advanced Materials Simulation (ICAMS)**

in combination with Professorships in the areas of

**Micromechanical modelling of macroscopic material behaviour:** The main focus of this department is modelling material behaviour at the macroscopic scale. Continuum methods are extended and combined with atomistic and mesoscale concepts. A proven track record in research on mesoscale processes such as dislocation dynamics, texture evolution, microstructural damage accumulation and fracture mechanics is expected.

**Scale-bridging thermodynamic and kinetic simulations at the mesoscopic scale:** This department covers the mesoscale with special emphasis placed on microstructure, phase transformations, precipitation processes and interface dominated material properties. Simulation tools include statistical mechanics, Monte Carlo simulations and phase field modelling.

**Simulation of material behaviour at the atomistic scale:** The research objective of this department is the description of fundamental material properties, thermodynamic quantities and surface reactions at the atomistic scale. A strong focus on coupling atomistic level simulations to mesoscale materials properties is expected. Phenomena such as defect properties and microstructural evolution are in the focus of interest. Knowledge in the areas of DFT, empirical potentials and MD and/or the development of empirical potentials is required.

For all three positions (starting date: January 2008) proven track records in bridging length and time scales and the willingness to collaborate with the other two groups and with industry are expected. ICAMS is a newly founded interdisciplinary institute for modelling and simulation of advanced engineering materials including soft matter. ICAMS aims at predicting the macroscopic behaviour of engineering materials from atomistic properties and microstructure with the intention to provide tools allowing improved and accelerated development of new materials. ICAMS is funded and financed by leading German companies, the Federal State of North-Rhine Westfalia and the Ruhr University Bochum. ICAMS is designed to be a strong multidisciplinary centre consisting of three endowed chairs (encompassing several positions for research assistants and PhD students) and three associated advanced study groups which link ICAMS-activities with existing theoretical and experimental expertise. ICAMS' mission is to establish new research and educational programmes in the area of materials simulation, combining expertise from natural sciences, mathematics and engineering. ICAMS will have strong interactions with the material scientists at the Ruhr University Bochum, with leading institutes in materials research and with industry. ICAMS will also educate a new generation of materials engineers trained in advanced materials simulation techniques. We seek candidates with an outstanding international reputation, the ability to lead an institute and to collaborate with industry, experience in the acquisition of research funds and in teaching at the university level. The Ruhr University Bochum is committed to equal opportunity in employment and gender equality in its working environment. To increase equal gender distribution in all job categories and at all levels, we strongly encourage applications from qualified women. Female applicants will be given preferential consideration when their level of qualification, competence and professional achievements equals that of male candidates, unless arguments based on the personal background of a male co-applicant prevail. Applications from appropriately qualified handicapped persons are also encouraged.

Applications, including a curriculum vitae, a list of publications and a statement of research interests and plans, should be sent by April 13<sup>th</sup>, 2007 to: **Dr. E. Weiler, Rector of the Ruhr University Bochum, concerning ICAMS, Ruhr-Universität Bochum, D-44780 Bochum.** Potential candidates will be invited to participate in a scientific colloquium on 15<sup>th</sup>-17<sup>th</sup> of May 2007.



**MRS 2007 SPRING**  
**Career Center**

**Member Alert!**

**Meet Your Next Employer ...**

Show off your talents to the world's most prestigious universities, laboratories and high-tech firms. FREE of charge to all MRS Members, the Career Center provides targeted employment opportunities to candidates seeking positions in the scientific community.

- Review open positions tailored to the materials research industry
- Interview with prospective employers
- Visit on-site recruitment booths and network with technical staff

**Location & Hours**

Moscone West • Exhibit Hall (Level 1)

Monday, April 9 (Registration only) .....	1:00 pm – 4:00 pm
Tuesday, April 10 .....	11:00 am – 5:30 pm
Wednesday, April 11 .....	11:00 am – 5:30 pm
Thursday, April 12.....	10:00 am – 1:30 pm

For additional information, contact Lorri Smiley at [smiley@mrs.org](mailto:smiley@mrs.org).

**Do the research to advance your career...  
 visit the MRS Career Center today!**