Research Scientist in Stress Analysis  
Centre of Excellence for Advanced Materials (CEAM)  
Location: Dongguan, China  
Salary: RMB 260-800k per annum  
Hours: Full-time  
Contract Type: renewable 3-year contract

About CEAM  
Formally established in March 2016, the Centre of Excellence for Advanced Materials (CEAM) is an innovative materials R&D institute supported by recent science and technology initiatives of Guangdong Province, China. With substantial funding secured from the provincial and metropolitan (Dongguan City) governments, the primary objective of CEAM is to design and build a materials engineering diffractometer at the China Spallation Neutron Source (CSNS) which is also located in Dongguan, Guangdong Province, China. In the meantime, in order to promote the use of the neutron diffractometer in materials research and extend the application of large scientific apparatus in materials and manufacturing industry in China, CEAM has also built the necessary integral R&D functions, including Neutron Technology Department, Materials Research and Development Department, Stress Measurement and Analysis Department, and Numerical Modelling and Simulation Department. This is an exciting opportunity to join our professional, young, vibrant and expanding R&D teams.

Job Description  
The Stress Measurement and Analysis Department have vacancies at both Postdoctoral Research Scientist and Senior/Principal Research Scientist levels for exceptional and talented researchers.

Key accountabilities  
• To provide technical expertise in solving material and residual stress related problems for academia and industry,  
• To develop innovative techniques and ideas for material property characterization in particular residual stresses,  
• To jointly initiate and execute collaborative projects with key academic and industrial partners,  
• To prepare research proposals and project applications for bidding of major provincial, national and international R&D grants,  
• To publish papers in high impact factor journals.

Essential requirements  
• PhD (or equivalent) degree in Mechanical Engineering or Materials Science Engineering  
• Proven research record with publications in Materials Science and Engineering

Preference will be given to those candidates with  
• Good background in Mechanical Engineering, Solid Mechanics and Structural Integrity.  
• Knowledge of conventional and innovative materials manufacturing processes including casting, welding, forming, and 3D printing, etc.
• To plan, direct and undertake experiments to solve industrial research measurement challenges within budget and timescale.
• To provide residual stress engineering related technical advice and consultancy services to industry.
• To apply appropriate modelling techniques to address stress engineering research objectives.
• To compile, analyse, assess and write up data from measurement and modelling studies.
• To summarise research findings in reports for industry, conference papers and journal articles.
• To nurture collaborative residual stress related R&D with industrial sponsors.

How to apply
Candidates who are interested should provide:
• Full CV, including a list of your publications
• One-page statement indicating why your expertise is relevant
• Contact details of 3 referees
• Other supporting documents, such as degree certificates and/or proofs of present employment

Applications should be sent to hr@ceamat.com. For further information about CEAM, please visit our website: www.ceamat.com.