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DEPARTMENT OF TRANSPORT TECHNOLOGY

POST-DOCTORAL RESEARCH POSITIONS IN C.F.D.

Two posts in Computational Fluid Dynamics. Candidates should hold a PhD degree in C.F.D. topic relevant to the application areas described below. Both positions are available immediately, with funding in place for three years.

Post 1 is funded by RAE (Bedford) and involves the development of a RANS method for propulsion installation aerodynamics problems. Work will be carried out on the implementation of compressible pressure-correction algorithms on structured, non-orthogonal meshes with emphasis on high Mach number performance and accuracy/efficiency aspects of the code. Algorithm development on a Meiko i860 parallel-processor will be required.

Post 2 is funded via an SERC/Rolls-Royce collaborative programme and involves a C.F.D. study of unsteady compressible combustion in flows relevant to aero-engine gas-turbine systems. Extension of a compressible pressure-correction method to allow for density dependence on both pressure and heat release under turbulent flow conditions forms a prime objective of the project. Comparison of the developed method, against experimental data taken in pre-mixed ducted flames undergoing buzz type oscillations is intended.

Starting salary will be on the RAIA scale, within the range £11,969-£15,481 pa.

Applications stating which post is preferred, including a CV and names of two referees should be sent to:

**Professor J J McGuirk,
Department of Transport Technology,
University of Technology,
Loughborough, Leics LE11 3TU.**

