

**School of Civil Engineering
Nottingham Centre for Pavement Engineering**

Research Associates/Fellows in Materials/Pavement Engineering (Two posts)

The extensive research undertaken in pavement engineering within the School of Civil Engineering at Nottingham is carried out within the Nottingham Centre for Pavement Engineering (NCPE). As one of a series of new appointments in NCPE, two research posts are available to work on a major EPSRC-funded collaborative project directed by Dr A C Collop and Dr G D Airey from NCPE and Professor Tom Scarpas from Delft University of Technology, The Netherlands. The overall aim of the project is to develop and validate a new constitutive model for asphalt and implement the model into Finite Element (FE) software.

Post 1 - The successful candidate will be expected to undertake a range of laboratory experiments for determination of the material parameters required for the new constitutive model. The person appointed will also be expected to co-ordinate the full-scale validation experiments that will be undertaken at the Transport Research Laboratory (TRL) and liaise with the industrial project partners. Ideally, candidates should have a good first degree in civil, mechanical or materials engineering, with a background in experimental testing. The person appointed will have the opportunity to register for a PhD. Candidates who already have a PhD that involved experimental materials testing will also be considered. **Please quote ref. ACC/01.**

Post 2 - The successful candidate will be responsible for development of the new constitutive model and its implementation into FE software developed by Delft University of Technology. It is expected that the successful candidate will spend some time in Delft during the implementation phase, working closely with the program originators. Ideally, candidates should have a good first degree in maths, physics or engineering. The person appointed will have the opportunity to register for a PhD. Candidates who already have a PhD that involved analytical/numerical material modelling will also be considered. **Please quote ref. ACC/02.**

Salary will be within the range £18,265 - £27,339 per annum, depending on qualifications and experience (£20,311 maximum without PhD). These posts will be offered on a fixed-term contract for a period of three years.

Informal enquiries may be addressed to Dr Collop, tel: 0115 951 3935 or Email: Andrew.Collop@Nottingham.ac.uk. Further details about NCPE and other research opportunities are available at: <http://www.nottingham.ac.uk/ncpe>.

Candidates should send a detailed CV, together with any relevant supporting material and the names and addresses of two referees (at least one of which should be academic), to Dr A C Collop, Nottingham Centre for Pavement Engineering, The University of Nottingham, University Park, Nottingham, NG7 2RD. **Please quote relevant reference number(s). Closing date: 19 December 2003.**