

PhD Opportunity: Acoustic Characterisation of Sediment Deposits

PhD opportunity within the School of Engineering, Design and Technology at the University of Bradford, UK:

PhD Studentship in the Use of Advanced Acoustic Techniques for the Remote Measurement of the Characteristics of Partially Saturated Sediment Deposits

A £12,000 per annum EPSRC funded PhD position is available to undertake an interdisciplinary project which embraces the areas of geotechnics, hydraulics, environmental science and acoustics. There is the opportunity to travel extensively to work with research collaborators in France (CNRS in Marseille) and the USA (University of Washington in Seattle). The aim of this project is to develop the theory and methods currently used in underwater acoustics to be able to measure changes in porosity, water and gas content in consolidating sediment deposits. This will provide a new capability for the remote, indirect measurement of mechanical, hydraulic and bio-chemical processes in porous media. The results of this work are fundamental in nature and could be of benefit to a range of application areas such as river hydraulics and hydrology.

Candidates must be strongly numerate with a 2.1 or 1st class undergraduate degree in a relevant engineering, mathematical or physical science subject. Applicants with a degree in Civil Engineering, Environmental Engineering, Environmental Science, Geology, Geography, Physics, Mathematics or Acoustics are particularly encouraged to apply.

This position is funded by a training award from EPSRC, according to their eligibility rules of EPSRC funding is only open to UK and EU applicants. Use the following link to check your eligibility <http://www.epsrc.ac.uk/PostgraduateTraining/StudentEligibility.htm>. Selection will be by assessment of CV and by interview. The main criteria will be the academic capability of the applicant and their potential for research. Interested applicants are encouraged to act quickly as the position may be filled when a suitable candidate is identified. Applicants can telephone for informal discussion, in the first instance. Please e-mail or mail expressions of interest along with a CV to: Prof. Simon Tait (s.tait@bradford.ac.uk) or Prof. Kirill V. Horoshenkov (k.horoshenkov@bradford.ac.uk).

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