

University of Bath and University of Strathclyde

Two 3-year Postdoctoral Positions

This is an advance announcement that we are seeking strong candidates to work on the project:

Fast solvers for frequency-domain wave-scattering problems and applications

which is funded by the UK Engineering and Physical Sciences Research Council.

The positions will start as soon as possible after 1st January 2019.

The overall goal of the project will be to design, analyse, and implement fast, highly-parallel domain decomposition preconditioners for heterogeneous frequency-domain wave problems involving acoustic, electromagnetic, or elastic waves.

The investigators are Ivan Graham, Euan Spence and Silvia Gazzola at Bath and Victorita Dolean at Strathclyde (Glasgow).

The project concerns the numerical analysis and applications of iterative solvers for discrete frequency domain wave equations at moderate- to high-frequency, their implementation on HPC architectures and application to forward and inverse problems in geosciences and electromagnetics.

The postdoctoral researchers will have the opportunity to work with a range of international experts on fundamental problems in the numerical analysis of waves and to take part in external applied collaborations with Schlumberger Cambridge Research, Imperial College London, ABB (Switzerland) and with scientists at the Universities of Geneva, Nice, Paris, and Toulouse.

We will be appointing one postdoctoral research associate to work in each of Bath and Strathclyde for three years each, with substantial interaction and collaboration between the two centres. A formal advertisement will be placed on www.jobs.ac.uk in the near future, with a closing date in early September 2018. Interviews for the positions will be in late September or early October 2018.

If you are interested in one of these positions (or if you know someone who may be interested) please contact

Ivan Graham (I.G.Graham@bath.ac.uk),
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or pass this announcement on as appropriate.