

UNIVERSITY OF OXFORD

Mathematical, Physical and Life Sciences Division

MATHEMATICAL INSTITUTE

Postdoctoral Research Position in Computational Arithmetic Geometry

Grade 7: £28,839 - £35,469

We invite applications for a 2-year Postdoctoral Research Position, funded by a European Research Council grant entitled "*Effective Methods in Rigid and Crystalline Cohomology*" held by Alan Lauder. The position is available from 1 October 2009.

The Mathematical Institute has strong research groups in Number Theory and Geometry. In addition to Alan Lauder, permanent members of the faculty working in Number Theory or Geometry include Roger Heath-Brown, Victor Flynn, Tamas Hausel, Frances Kirwan and Balazs Szendroi.

The Postdoctoral Researcher will be expected to conduct research related to the ERC project of Alan Lauder. The project aims to develop methods for computing with rigid and crystalline cohomology with a view to experimental investigations centred around conjectures of Tate and Katz. Recent work along these lines by Alan Lauder can be found at <http://www.maths.ox.ac.uk/lauder/>.

Applicants are expected to have a strong background in number theory and algebraic geometry, preferably with some knowledge of relevant subjects such as p-adic cohomology and the arithmetic of algebraic varieties.

Further particulars of the post are available from The Administrative Assistant (Vacancies), Mathematical Institute, 24-29 St Giles', Oxford OX1 3LB (email vacancies@maths.ox.ac.uk) and at www.maths.ox.ac.uk/notices/vacancies.

Applicants should submit a letter of application explaining their suitability for the position and how they meet the selection criteria (see further particulars), a full curriculum vitae, list of publications, a statement of research interests and the names and contact details of two referees. Applications should be sent to The Administrative Assistant (Vacancies) at the above address by lunchtime on Friday 27th February 2009 (email applications to the address above are acceptable). **Applicants must arrange for their referees to send references direct to the Administrative Assistant by the same date (fax or email is sufficient).** Please quote reference BK/09/007.

The University is an Equal Opportunities Employer.