Positions

For various other job postings visit academickeys.com

A post-doc position in probability (Mean-Field descriptions or thermodynamics limits of large populations of neurons or related subjects like spin glasses) is available at INRIA in the Sophia Antipolis Méditerranée Research Center, France.
More informations please visit http://www-sop.inria.fr/members/Olivier.Faugeras/index.en.html

**Bath University:** The Department of Mathematical Sciences is seeking to appoint a new professor who will extend and enhance its strength in Mathematical Analysis. Applications are particularly encouraged in Partial Differential Equations, Geometric Analysis, Calculus of Variations, Harmonic Analysis, Geometric Measure Theory, Ergodic Theory and Operator Theory, or a related field of Mathematical Analysis.

Applicants must have a strong research vision and a track-record of engagement within their Department and with the wider mathematics community. A key role will be to provide leadership and to help shape the wider research strategy of the analysis group and of the department and the university as a whole. Candidates should also have a strong interest in pursuing excellence in undergraduate and postgraduate teaching and in supervising graduate students.
For more information visit http://www.bath.ac.uk/hr/working/flexible-working/
Informal enquiries may be made to:
Professor Roger Moser, r.moser@bath.ac.uk, +44 (0)1225 386699,
Dr Veronique Fischer, v.c.m.fischer@bath.ac.uk, +44 (0)1225 383205, or
Professor Peter Mörters, Head of Department, p.morters@bath.ac.uk, +44 (0)1225 386216

The London Centre for Nanotechnology and University College London are pleased to offer an EPSRC funded PhD position in theoretical condensed matter physics. The student will pursue theoretical research into strongly correlated quantum systems, investigating the formation of new phases due to quantum fluctuations. He/she will investigate the quantum order by disorder route to understanding these effects, with the aim of incorporating them into established ab initio numerical approaches. The research will be carried out under the supervision of Prof Andrew Green in UCL and Prof Chris Pickard in Cambridge, and in close collaboration with the theory group of Dr F. Kruger and the experimental groups of Prof Andrew Huxley in Edinburgh and Prof Des McMorrow in UCL.
The position will be funded by the EPSRC for 4 years.
To enquire contact: Prof Andrew Green, andrew.green@ucl.ac.uk

**New England Complex Systems Institute** has two Postdoc and Research Positions Available
Computational Social Science and Medical Data Research
Computational Social Science Research - We are seeking a postdoctoral or predoctoral researcher to study patterns of human social behavior revealed in data sources including social media. The right candidate will have a unique opportunity to apply data analysis, machine learning, and artificial intelligence research to glean complex insights about patterns in social systems.

Medical Data Research - We are seeking a postdoctoral or predoctoral researcher to study an exclusive set of medical data provided by partnering medical institutions. The right candidate will have a unique opportunity to apply data analysis, machine learning, and artificial intelligence research to glean complex insights about patterns in human health.

Direct inquiries to programs@necsi.edu, or apply online at http://www.necsi.edu/education/postdoc/app.php

The Department of Physics at the University of Houston seeks to fill a tenure-track Assistant professorship with a theorist specializing in statistical mechanics pending the approval by the University of Houston Board of Regents. We expect to hire at the assistant professor level, but more senior candidates may be considered. Candidates must have a strong record of scholarship and be able to establish and sustain a robust, externally funded research program. Preference will be given to those with postdoctoral experience. Candidates must also demonstrate a commitment to and potential for excellence in teaching a wide range of physics courses at both graduate and undergraduate levels, as well as in mentoring students in research. Effective communication skills are required.

Applications should include: (1) a detailed cover letter describing the applicant’s background and qualifications for the position, (2) a statement of philosophy, interest, and experience in teaching, (3) a detailed statement of proposed research, including plans for involving students and for seeking external support, (4) a full curriculum vitae, including a list of publications and the names, addresses, e-mail addresses, and telephone numbers of at least three professional references. The applicants must apply at http://jobs.uh.edu

University of Cambridge is currently seeking several Postdoctoral Research Associates in the Soft Matter Group in Cambridge’s Department of Applied Mathematics and Theoretical Physics (DAMTP). Details are here: http://www.jobs.cam.ac.uk/job/16528/

Several DOCTORAL and POSTDOCTORAL openings in the group of RAVA AZEREDO DA SILVEIRA at the Ecole Normale Superieure, Paris

We will be hiring several Ph.D. students and postdocs to work on an array of projects on computation and coding in neural circuits. The projected studies range from the modeling of computations in retinal circuits, to the analysis of large sets of retinal and cortical data, to the investigations of mathematical models of coding. Some of the projects will be set in close collaboration with the experimental labs of Botond Roska (FMI, Basel) and Andreas Hierlemann (ETH, Basel); they will involve the study of mouse retina and cortex, primate retina, and human retina, and questions on the representation and transformation of sensory inputs in populations of neurons. Experience with data analysis and proficiency with numerical methods and programming, in addition to familiarity with neuroscience topics and mathematical and statistical methods, are desirable. Equally desirable are a spirit of intellectual adventure as well as drive and eagerness.
Doctoral and postdoctoral salaries will be competitive, appreciably higher than standard French salaries. Depending on their projects, Ph.D. students and postdocs may wish to spend a fraction of their time in Basel, Switzerland, which features a first-rate community of researchers in experimental neuroscience.
To apply, please send a letter of motivation, a statement of research interests limited to two pages, a curriculum vitae including a list of publications, and any relevant publications to rava@ens.fr, and arrange for three letters of recommendations to be sent to the same address. For full consideration, please apply by 1 March 2018.

One post-doctoral positions are available at the Group of Statistical Mechanics of the São Carlos Institute of Physics, University of São Paulo.
The positions are funded by FAPESP (a São Paulo State agency) to the project: Quantum Spin Chain, coordinated by Francisco C. Alcaraz.

The candidates should have experience in at least one of the following subjects (or related area):

1. Conformal Field Theory and general applications to Statistical Mechanics or Condensed Matter,
2. Numerical methods for spectral calculations in quantum systems (Lanczos, DMRG, t-DMRG, MERA, etc.),
3. Bethe ansatz and integrable models,
4. Non-equilibrium stochastic models,
5. Quantum information in quantum chains.
6. Disordered systems in Statistical Mechanics and Condensed Matter,

The positions are for (1+1) years, with possible further extensions. The net salary is R$ 7.174,80/per month (brazilian reais)+additional traveling resources. Applications including a CV with a brief research statement and two reference letters should be sent to the email address: alcaraz@ifsc.usp.br
The deadline for applications is April, 1 2018.
For further information please contact F. C. Alcaraz alcaraz@ifsc.usp.br