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

Department of Physics at the New York University is conducting a faculty search in Quantum Condensed Matter and Atomic Molecular and Optical Physics; tenure track Assistant Professor.
The Center for Quantum Phenomena is the newly established Center within the NYU Physics Department. After the highly anticipated inaugural opening in June the Center is ambitiously pursuing the plans for future significant growth, and is committed to further the development and advancement in the field of quantum phenomena. Currently, the Center has 28 members, including faculty, postdocs and graduate students. The closing date for applications for this position is Wednesday, January 31, 2018. The position can begin as early as September 1, 2018. For further information about this search and the submission of the applications, please visit the webpage: http://as.nyu.edu/physics/information/jobs.html.

The Center for Nonlinear Analysis anticipates making Postdoctoral appointments beginning September 2018 in the general areas of nonlinear partial differential equations, calculus of variations, and their applications. These will be three-year joint appointments by the Center and the Department of Mathematical Sciences. Recipients will teach one course per semester. Applicants should submit all materials electronically at www.mathjobs.org. This includes the AMS Standard Cover Sheet, a cover letter, a curriculum vitae, a list of publications, a statement describing current and planned research, and three letters of recommendation. Recommenders who are unable to submit their letters electronically may mail them to the committee.

Applications are due on or before January 15, 2018. Review of applications will begin on October 1, 2017, and will continue until the positions are filled.

The Ecole Normale Supérieure (ENS Paris) invites applications for a Junior Research and Teaching Laplace chair in data science at the postdoctoral level, funded by CFM (Capital Fund Management) and the ENS. The chair is named after Pierre-Simon, marquis de Laplace, who between many accomplishments, was one of the early founders of statistical inference and data science. The Laplace chair aims at recruiting outstanding candidates in all areas of data sciences including theoretical statistics, machine learning, optimization, signal processing, computer science, applied mathematics and statistical physics, or working on applications to other sciences such as physics, biology, medicine, social sciences or economics.

Appointments will be for two years with a possible extension for a third year. Salary is competitive and the positions are endowed with travel resources.

The successful candidate will carry out research in ENS, with reduced teaching duties which will be adapted. Applications should consist of a single file and be send before December 31th, 2017 by email to laplacechair2018@gmail.com.
- A cover letter ;
- A complete CV including a list of publications ;
- A research statement (maximum 4 pages in A4 format) taking into account possible interactions with research groups/faculty within the different department of ENS (Computer science, Mathematics, Physics, Biology, etc.) ;
- Three letters of recommendation from senior scientists, to be sent directly by email to laplacechair2018@gmail.com.

More information please visit https://data-ens.github.io. Short-listed candidates will be invited for an interview (video conference) in mid-January 2018.
The Florida State University (FSU) Physics Department invites applications for a tenure track Assistant Professor position in theoretical condensed matter physics, with starting date at the beginning of the Fall semester of 2018. The successful candidate is expected to lead an independent program within the broad areas of equilibrium and/or non-equilibrium phenomena in hard or soft condensed matter, reflecting recent advances in theoretical and computational techniques. We expect the candidate to strengthen ties to other programs in the department, including the diverse experimental programs in condensed matter and materials science at FSU.

Applicants should provide a cover letter, a curriculum vitae with a list of publications, a research plan, a teaching statement, and arrange for at least three letters of recommendation to be sent (all in PDF format) to: cmtsearch@cmt.physics.fsu.edu. Review of applications will begin on November 27, 2017 and will continue until the position is filled. The Florida State University is an Equal Opportunity/Affirmative Action Employer and it especially encourages applications from women and members of minority groups.

Postdoc opening in the Condensed Matter Theory group at the University of California at Santa Cruz. For information please visit https://academicjobsonline.org/ajo/jobs/10194

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 School of Mathematical Sciences at Tel Aviv University invites applications for postdoctoral fellowships in Probability Theory and Statistical Mechanics. Our group includes Prof. Asaf Nachmias, Prof. Ron Peled and several post-doctoral fellows and graduate students. The position starts on October 1, 2018 and its duration is for 2 years with an option for renewal. Shorter durations or other starting dates can be considered. Applicants should complete their Ph.D. degree by September 30, 2018.

Post-doctoral fellowships are research positions and do not carry teaching responsibilities.
Candidates should e-mail the following application materials to Ms. Nurit Liberman at nuritl@tauex.tau.ac.il with cc to Prof. Ron Peled at peledron@post.tau.ac.il: CV, List of publications, Research statement, Three letters of recommendation. The deadline for applications is January 15, 2018. Applications received after the deadline will be considered if positions remain open. The positions are also announced on the MathJobs website: https://www.mathjobs.org/jobs/jobs/11387

EMMY NOETHER VISITING FELLOWSHIP at Perimeter Institute for Theoretical Physics
Emmy Noether was a brilliant scientist whose work underpins much of modern physics. Perimeter’s Emmy Noether Visiting Fellowships honour her legacy by supporting and encouraging gender diversity in science. The Fellowships bring talented researchers to the Institute at a critical stage of their careers. Fellows enjoy uninterrupted research time immersed in Perimeter’s collaborative environment. The flexibility of the program enables researchers to shape their visit in a way that suits their research and lives. Emmy Noether Visiting Fellowships are held for periods of up to one year. Start time is flexible. Early-career faculty-level scientists are especially encouraged to apply. We welcome all candidates to apply online by January 15, 2018, however applications will be considered until all positions are filled. Apply online at www.perimeterinstitute.ca/emmynoether

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

Perimeter Scholars International (PSI)
Each year, Canada’s Perimeter Institute for Theoretical Physics recruits approximately 30 exceptional science graduates for an immersive, 10-month physics boot camp: Perimeter Scholars International (PSI) this unique Master’s program seeks not only students with stellar undergraduate physics track records, but also those with diverse backgrounds, collaborative spirit, creativity, and other attributes that will set them apart as future innovators. Features of the program include:
Fully-funded program - removing financial and/or geographical barriers to entry. Students will be provided with: full tuition, accommodation, meals, living stipend, health insurance, book and materials, necessary IT equipment, and travel supplement.

The PSI program will expose students to the full breadth of theoretical physics in courses taught by world-leading theoretical physicists - Perimeter researchers and visiting scientists. Applications are due by February 1, 2018.