

RECRUITMENT

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NSCL National Superconducting Cyclotron Laboratory at Michigan State University

Faculty Positions in Nuclear and Accelerator Science

Michigan State University (MSU) invites applications for four vacant faculty positions at NSCL. NSCL faculty normally have joint appointments in a major academic department at MSU where they are expected to teach, although other arrangements may be possible. Applications are particularly encouraged in the new and emerging areas of research at NSCL that include laser-based nuclear physics, nuclear physics and astrophysics with reaccelerated rare-isotope beams, nuclear structure physics far from stability, and accelerator physics and engineering.

The successful candidates are expected to develop leadership roles in research at NSCL, contribute new capabilities to the laboratory, and contribute to NSCL's graduate and undergraduate education programs. Depending upon the qualifications of the successful applicants, each position can be filled at the assistant, associate, or full professor level, with a competitive salary.

NSCL is the forefront facility in the United States for nuclear physics with rare isotope beams and is in the process of developing new research capabilities with stopped and reaccelerated beams. NSCL has approximately 300 employees, including 28 faculty members and over 100 graduate and undergraduate students. The existing state-of-the-art experimental equipment as well as advanced design and machining capabilities allow rapid and efficient progress from concept development to design and fabrication of new equipment. Information about NSCL can be found at the laboratory's Web site (www.nsl.mscl.edu); information about NSCL faculty appointments can be found at the MSU Human Resources Web site (www.hr.msu.edu/HRsite/Documents/Faculty/Handbooks/nslcfacpos).

Applicants should send a letter of application, a résumé, including a list of publications, and the names and addresses of at least three references to **Prof. David Morrissey, NSCL, Michigan State University, East Lansing, MI 48824-1321**. MSU is committed to achieving excellence through cultural diversity. The university actively encourages applications and/or nominations of women, persons of color, veterans and persons with disabilities.



Advancing Knowledge.
Transforming Lives.

Michigan State University is an affirmative action,
equal opportunity employer.



MSc in High-Performance Computing

UK/EU studentships available

EPCC, School of Physics and Astronomy, University of Edinburgh offers a one-year taught MSc in High-Performance Computing (HPC). EPCC has an international reputation as a leading HPC centre of expertise. The entrance requirement is a good honours degree or equivalent work experience; candidates must be competent programmers in Java, C, C++, or Fortran.

Closing dates:

28 February 2009 for UK/EU

31 January 2009 for non-UK/EU

See <http://www.epcc.ed.ac.uk/msc/>
or email msc@epcc.ed.ac.uk

ASSISTANT PROFESSOR

Kansas State University seeks applicants with a Ph.D. in experimental high energy physics to join the CMS experiment at CERN.

Contact information: 785-532-1644,
hepsearch@phys.ksu.edu, or go to http://www.phys.ksu.edu/main/job_opp.html
for position description and application procedures. EOE. Background check required

cerncourier.com



UNIVERSITÉ
DE GENÈVE

FACULTY POSITION IN COSMOLOGY (MER) - GENEVA, SWITZERLAND

This is a permanent fulltime position with 4 hours of teaching per week. The candidate should pursue a vigorous research program in cosmology. More precisely she/he should work on the problem of dark energy considering as well its theoretical aspects as also methods for experimental investigations of dark energy. The candidate is expected to participate in the supervision of graduate students and teaching on all levels.

Applications have to be sent to **Prof. Ruth DURRER, DPT, Université de Genève, 24, quai Ernest Ansermet, CH-1211 Genève 4, Suisse.**

Additional information can be obtained from ruth.durrer@unige.ch.

LEDERMAN FELLOWSHIP in EXPERIMENTAL PARTICLE or ACCELERATOR PHYSICS

The Fermi National Accelerator Laboratory (Fermilab) has an opening for a postdoctoral Lederman Fellow in experimental particle physics or accelerator physics. In recognition of Leon Lederman's commitment to the teaching of physics, we are looking for candidates who have demonstrated outstanding ability in research and who also wish to participate in physics outreach for a fraction of their time. The Lederman Fellow will have a choice of opportunity within the broad program of experimental research at Fermilab which includes experiments at the energy frontier, neutrino physics, particle astrophysics, and accelerator physics. See <http://www.fnal.gov/> for more information.

The appointment is for three years with a possible extension. Candidates should either have obtained a Ph.D. in experimental particle or accelerator physics after January 1st, 2008 or should expect to obtain a Ph.D. in the same topics by July 2009.

To apply, please email LMLFAPP@fnal.gov or write to Lederman Fellowship Committee, c/o Ms. Cindy Kennedy, MS 122, Fermi National Accelerator Laboratory, P.O. Box 500, Batavia, IL 60510-0500. Applicants should provide a curriculum vitae, a publication list and the names of four references, and should describe their prior research and research interests, and their experience and interest in teaching and outreach. Applications will be accepted through January 12, 2009.



Fermilab is an Equal Opportunity Employer – M/F/D/V



BERGISCHE
UNIVERSITÄT
WUPPERTAL

DEPARTMENT OF PHYSICS

As part of our research with the ATLAS experiment, the University of Wuppertal has an opening for a PhD physicist as a

Lecturer (Akademischer Rat)

Our group in Wuppertal has major responsibilities for the commissioning and upgrading the ATLAS pixel-detector. We are also operating an ATLAS Tier 2-center, are designing reconstruction-software for the inner detector and are preparing for physics analysis of the ATLAS data.

We are searching for a PhD physicist with an excellent knowledge in the phenomenology at hadron colliders and first-rate expertise in experimental techniques for data analyses. He/she should have the ability to play a major role in large experimental collaborations.

The position can be filled for an initial three years with a possible extension for another three years. Salary and benefits are commensurate with public services (A13).

In line with our policy of equal opportunities, we particularly encourage women to apply.

Interested candidates should send applications until Dec 31, 2008 to:

Prof. Dr. Peter Mättig
Fachbereich Physik, Universität Wuppertal, Gaußstr. 20, D 42097 Wuppertal
peter.mattig@cern.ch



Associate Professorship in Experimental Subatomic Physics

The Niels Bohr Institute

The Niels Bohr Institute is searching for an experimentalist with an outstanding research profile and openness towards new research directions in experimental subatomic physics. The research area must be within physics and detector development explored at the Large Hadron Collider at CERN. The successful candidate is expected to contribute to developments of the experimental methods as well to utilizing the existing experiments at CERN. The current areas of activity in experimental subatomic physics at the institute include a strong involvement in all aspects of the two experiments ALICE and ATLAS, e.g. trigger systems, tracking detectors, GRID and physics analysis. Activities beyond the current LHC program are under discussion and the new Assoc. Prof. is expected to contribute significantly to future choices of direction.

The position is open from 1st May 2009 or as soon as possible thereafter. Duties may include the successful applicant's own research, development of the field, assessment tasks, grant applications, and research management such as supervision and training of research fellows and other staff. The successful applicant must also teach, prepare and participate in examinations, and fulfill other tasks requested by the Department. Information on the Department is linked at www.nat.ku.dk/institutter, and enquiries about the position can be made to Prof. John Renner Hansen, Head of Department,

+45 35325292 and renner@nbi.dk. Terms of appointment and payment accord to the agreement between the Ministry of Finance and The Danish Confederation of Professional Associations on Academics in the State (www.perst.dk/db/filarkiv/12811/004-06.pdf). While negotiation for salary supplement is possible, the starting salary is currently up to DKK 413,447 including annual supplement (+ pension up to DKK 70,699).

Applications must be in English, emailed as a single PDF file to science-position@science.ku.dk (Subject line: Your last name, 211-0199), and include in the following order:

- Curriculum vitae (with applicants e-mail address & telephone number)
- Description (max. 5 pages) of current and proposed research including its relation to other research at the Department
- Documentation of teaching experience and other qualifications
- Full contact details (Name, address, telephone & email) of 2 professional references
- Complete publication list indicating max. 5 papers particularly relevant to the application
- Reprints of the 5 particularly relevant papers (included, most recent first, in the single file).

The University wishes our staff to reflect the diversity of society and thus welcomes applications from all qualified candidates

regardless of personal background. The deadline for applications is 15th January 2009 at noon, 12:00pm local Danish time. Applications or supplementary material received thereafter will not be considered.

Assessment of applicants will primarily consider their level of documented, original scientific production at an international level, including contributions to developments in their field. The teaching, managerial, out-reach, and innovative qualifications of applicants will also be considered. Assessment guidelines, pursuant to revisions, are available in English and Danish at www.nat.ku.dk/ansatte/service/loen_og_ansaettelse/ansaettelse/vip. Such guidelines include:

- Applicants will be notified of the composition of the assessment committee
- Applicants must provide supplementary documentation if requested by the committee
- Applicants may be summoned for an interview and/or requested to give a trial lecture
- Each applicant will receive that part of the assessment relating to him/herself.

Founded in 1479, the University of Copenhagen is the oldest university in Denmark. With approximately 37,000 students and 7,500 employees, the University is the largest university in Scandinavia. According to an international survey the University is ranked as number eight in Europe, and it is a member of the International Alliance of Research Universities (IARU). www.ku.dk/english

The Strategic Helmholtz Alliance "Physics at the Terascale" (<http://www.terascale.de>) is a research network supported by the Helmholtz Association and comprises the research centres DESY and FZ Karlsruhe, 17 German universities and the Max-Planck-Institut für Physik. Within the framework of the worldwide investigation of the fundamental properties of matter using accelerators at the highest energies, the Alliance will sustainably concentrate and advance the expertise and strengths of the participating institutes.



Scientist

The Analysis Centre of the Helmholtz Alliance "Physics at the Terascale" at DESY, Hamburg site, is seeking a scientist to join the Statistics Tools group of the centre.

The Analysis Centre supports physicists at German institutes working on analyses at ATLAS, CMS and ILC. The centre contains three main branches: Monte Carlo Generators, Parton Distribution Functions and Statistics Tools. A major goal of the statistics tools group is to provide support and education for all kinds of statistics-related tasks and questions in high-energy physics data analysis.

The successful candidate is supposed to strengthen the activities of the group by

- contributing to the development of statistics tools,
- implementing existing tools into software frameworks like ROOT,
- taking part in the organisation of meetings, workshops and schools and
- helping to provide user support and web documentation.

The candidate is also expected to carry out research within one of the Alliance projects for about 50 % of his or her time.

The position requires

- a Ph.D. in physics,
- interest and experience in the development of statistics tools and
- programming, software maintenance and analysis experience (e. g. C++, Fortran, ROOT).

The position is initially limited until 30 June 2012, the nominal end of the Helmholtz Alliance funding period. For further information please contact Dr. Thomas Schörner-Sadenius (Thomas.Schoerner@desy.de).



GEORG-AUGUST-UNIVERSITÄT
GÖTTINGEN

Physicist

"Detector Development with the ATLAS Experiment"

The University of Göttingen offers a full-time position for a research assistant/post-doc (salary level TVL E13) beginning as soon as possible. The position is available for an initial period of two years with a possible extension by two years.

The post-doc will be member of the recently formed particle physics group to work on the ATLAS experiment at the Large Hadron Collider at CERN. The ATLAS experiment is designed to search for physics phenomena responsible for electroweak symmetry breaking and to study a variety of subjects related to physics at the TeV scale. The successful applicant is expected to participate in the supervision of students, in the start-up of the new particle physics group in Göttingen, in the research activities of the group and to play a leading role in detector development in the context of the Helmholtz Alliance, in particular in the ATLAS pixel detector upgrade.

For further information please contact Prof. Arnulf Quadt (aquadt@uni-goettingen.de).



Physicist

"Physics Data Analysis with the CMS Experiment"

The applicant is expected to contribute to physics data analysis within the CMS experiment, and to the Visual Physics Analysis project being developed at the RWTH Aachen. The position is funded by the Helmholtz Alliance "Physics at the Terascale" for a period of 3.5 years.

For further information please contact Prof. Martin Erdmann (+49-241-8027317, erdmann@physik.rwth-aachen.de).



Physicist

"Physics Data Analysis with the ATLAS Experiment"

The Faculty of Physics at LMU Munich has an immediate opening for a physicist on the search for signals of new physics beyond the Standard Model within the ATLAS experiment. The LMU ATLAS group is contributing to the muon spectrometer, Grid computing and the preparation of the data analysis. The appointee is expected to establish a strong research programme involving diploma and Ph.D. students with particular emphasis on searches for Higgs Bosons or supersymmetric particles and to contribute actively to a successful start-up phase of the ATLAS experiment.

The position is partially funded by the Strategic Helmholtz Alliance "Physics at the Terascale" and the salary follows the standard for public employment (TVL E13). The position is vacant and initially limited to two years with the possibility of an extension. Candidates should hold a Ph.D. in experimental particle physics.

For further information please contact Prof. Dorothee Schaile (dorothee.schaile@physik.uni-muenchen.de).



Two Physicists/Engineers

The Heidelberg ASIC Laboratory located in the Kirchhoff-Institut für Physik at the Ruprecht-Karls-Universität Heidelberg will extend its scope to support scientists and Ph.D. students in the area of analogue and mixed-signal VLSI component and system design and test. The institute has openings for two Physicists/Engineers for the design of integrated microelectronics, in particular analogue and mixed-signal circuits. An excellent knowledge of state-of-the-art-design and simulation tools is required as well as experience in the design and testing of complex electronic circuits employing ASICs and FPGAs. Practical experience in electronic circuit design and construction is required. Both positions are located in the existing ASIC laboratory for microelectronics. They are immediately available and will be limited until 30 June 2012.

For further information please contact Prof. Karlheinz Meier (meierk@kip.uni-heidelberg.de).

Applications (preferably by email) including a letter of application, CV, academic record as well as a list of publications and the names of three persons who can provide further information about the candidate should be addressed to:

Prof. Ian Brock (Scientific Manager of the Helmholtz Alliance)

DESY, Notkestraße 85, 22607 Hamburg, Germany (Ian.Brock@desy.de).

For all positions, salary and benefits are commensurate with those of public service organisations in Germany. Handicapped persons will be given preference to other equally qualified applicants. DESY and the universities are equal opportunity, affirmative action employers and encourage applications from women.

Closing date for all applications is 31 December 2008.



Science & Technology Facilities Council

The Science and Technology Facilities Council will bring strategic leadership and an integrated approach to UK investments in large national and international research facilities, whilst continuing to deliver world-class science, technology and people for the UK. The Council is involved in some of the world's most exciting research projects – like the Diamond Light Source Synchrotron and the Large Hadron Collider – and will develop new areas of science and technology – with your help.

Applied Scientist

Cryocooler Development

£26,068 - £28,986 per annum (In addition a recruitment and retention allowance of £3,000 is available)

Post available in the Cryogenics Group at the Rutherford Appleton Laboratory. The successful applicant will have the opportunity to work in a busy and dynamic environment on a variety of projects.

The group is involved in the development of closed cycle refrigerators for space applications. These are small long-life devices that are used on spacecraft for cooling infra red sensors. The work will involve investigations into rare earth materials used in the regenerators and the development of new compressors. There will be a mix of practical and theoretical investigations.

The successful applicant will be adaptable, keen to learn new skills and will have an analytical approach as well as being capable in a laboratory environment. Some assembly of mechanical equipment will be required and an appreciation of computer based logging equipment is desirable.

The successful applicant will be comfortable working as part of a large team and have good written and communication skills. He/She will have a sound approach to safety and be capable of understanding how safety legislation applies to the work in hand.

We offer excellent working conditions, a generous leave allowance and pension scheme.

For further information on these posts please contact Tom Bradshaw on 01235 446149 or e-mail: tom.bradshaw@stfc.ac.uk

To apply online go to www.scitech.ac.uk/About/Vacs/current/portal/Vacs.aspx for further information about the recruitment process, please contact Technology HR on 01235 445734 (answerphone) or e-mail Technology-HR@rl.ac.uk quoting reference TBU041.

Closing date: 17 December 2008.

Interviews will be held:

Week Commencing 5 January 2009.

NO AGENCIES

STFC is an equal opportunity employer and promotes diversity in its workforce. We are particularly keen to consider applications from groups currently underrepresented in the workforce and we are positive about disability.



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