

RECRUITMENT

For advertising enquiries, contact *CERN Courier* recruitment/classified, Institute of Physics Publishing, Dirac House, Temple Back, Bristol BS1 6BE, UK.

Tel: +44 (0)117 930 1028. Fax: +44 (0)117 930 1178. E-mail: sales@cerncourier.com.

Rates per single column centimetre: mono \$74/€68/£47, single colour \$76/€71/£49, full colour \$80/€74/£51. Please contact us for more information about publication dates and deadlines.

FACULTY POSITION IN EXPERIMENTAL HIGH ENERGY PHYSICS

The Department of Physics at the University of California, Riverside, is seeking an outstanding individual for a faculty appointment in experimental high energy physics. The appointment will be at the tenure track assistant professor level. The position is intended to strengthen our program of electron-positron collision physics with the BABAR experiment at SLAC. UCR has a well established program in the area of electron-positron collisions. In addition to BABAR, we participate in the OPAL and L3 experiments at LEP. The Department also has strong efforts in the DO and CMS hadron collider programs, theoretical high energy physics, heavy ion physics, condensed matter physics, and astrophysics.

The successful candidate is expected to initiate and maintain a vigorous research program with international prominence, and to demonstrate excellence in teaching at both the undergraduate and graduate levels. A Ph.D. in physics and postdoctoral experience in experimental high energy physics are required.

Salary will be competitive and commensurate with qualifications and level of appointment.

Candidates should submit a letter of application, curriculum vitae, statement of research interests, and list of publications to:

Chair, Experimental High Energy Physics Search Committee
Department of Physics
University of California, Riverside
Riverside, CA, 92521-0412
USA

Full review of applications will begin January 12, 2004.
The position will remain open until filled.



UCR

UNIVERSITY OF CALIFORNIA, RIVERSIDE

The University of California is an Equal Opportunity/Affirmative Action Employer

UNIVERSITY OF TORONTO

Department of Physics

TENURE TRACK FACULTY POSITION in EXPERIMENTAL PARTICLE PHYSICS



The Department of Physics at the University of Toronto plans to make a tenure track appointment in experimental particle physics at the rank of Assistant Professor, with starting date of July 1, 2004.

The University has a strong experimental particle physics program, consisting of seven faculty members playing leading roles in the ATLAS experiment at CERN, the CDF-II experiment at Fermilab and the ZEUS experiment at DESY. This is reinforced by a strong group in theoretical particle physics and in astrophysics. This appointment will allow the candidate to focus on developing a successful research program.

For this position, we seek candidates with a Ph.D. in physics and proven or potential excellence in both research and teaching. We invite prospective candidates to visit our home page at www.physics.utoronto.ca. The salary will be commensurate with qualifications and experience.

Applicants should submit hard copies only of a curriculum vitae, list of publications, and research plan, and must arrange for at least three letters of reference, to be sent to:

Professor Henry M. van Driel, Chair,
Department of Physics, University of Toronto,
Toronto, Ontario, Canada M5S 1A7

Applications will be reviewed beginning March 15, 2004 until the position is filled.

The University of Toronto offers the opportunity to teach, conduct research and live in one of the most diverse cities in the world. The University is strongly committed to diversity within its community and especially welcomes applications from visible minority group members, women, Aboriginal persons, persons with disabilities, members of sexual minority groups and others who may contribute to further diversification of ideas. All qualified candidates are encouraged to apply; however, Canadians and permanent residents will be given priority.



Research Associate Experimental Particle Physics

A Research Associate position is available with the particle physics group at TRIUMF and the University of British Columbia working on rare kaon decay experiments E949 and KOPIO at Brookhaven National Laboratory. These challenging discovery-oriented experiments offer unique potential for probing quark mixing and CP violation that is competitive with and complementary to future B physics measurements. Participation in other projects associated with the new Laboratory for Advanced Detector Development (LADD), such as liquid xenon detectors, is also possible. In addition to a recent PhD in experimental particle physics, applicants should have strong interest and experience in detector technologies, electronics, simulation, and data analysis.

The position will be based at TRIUMF, in Vancouver, British Columbia. Applications from qualified candidates should include a detailed CV and at least three reference letters sent to the following address, or fax, prior to March 31, 2004. TRIUMF Human Resources, Competition No. 924, 4004 Westbrook Mall, Vancouver, B.C. V6T 2A3 Canada. Fax: (604) 222-1074. For further information contact Douglas Bryman (doug@triumf.ca).

Postdoctoral Research Associate in Particle Physics Institute of Physics, Academia Sinica, Taiwan



The Particle Physics Group at the Academia Sinica invites applications for several Postdoctoral Research Associate positions to support its experimental and theory programs. Visiting Scientist positions are available for more senior candidates.

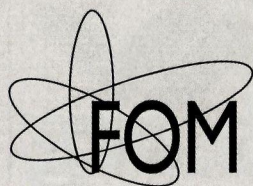
Academia Sinica is the leading basic research institution in Taiwan. The experimental group has active participation in the CDF, ATLAS, AMS, LEPs experiments and the GRID project. It also heads the TEXONO neutrino program and a sonoluminescence project. The theory group covers all major areas of particle physics and cosmology, particularly the studies of B/CP physics, cosmic microwave background and quantum computation. Positions can be made available in all these fields to match the candidates' research interest. For details, see <http://hepmail.phys.sinica.edu.tw/~recruit>.

Applications (including curriculum vitae and three reference letters) and inquiries can be forwarded to: **Dr. Henry Wong, Institute of Physics, Academia Sinica, Taipei 11529, Taiwan RoC** (htwong@phys.sinica.edu.tw). Applications are accepted until the positions are filled. We particularly welcome candidates with international experience to apply.

PhysicsJobs @physicsweb.org

Foundation FOM

The Foundation for Fundamental Research of Matter (FOM) stimulates and coordinates fundamental physics research in the Netherlands. For that, she is enabled by grants from the Dutch government through the Dutch Organisation for Scientific Research (NWO). FOM receives funds from NWO, Euratom, EU and several companies. The 1000 employees approximately, mainly scientists (including Ph.D. students) and technicians, are divided over five laboratories and approximately 100 departments at general and technical universities. FOM - founded in 1946 - is a foundation recognized by NWO.



Director of the National Institute NIKHEF

NIKHEF is a joint venture of FOM with 4 Dutch universities.

It co-ordinates experimental high energy and astro particle physics in the Netherlands. The director of the FOM institute for subatomic physics NIKHEF is also director of the NIKHEF collaboration between FOM and these 4 universities.

FOM is seeking applications/ nominations for this important post.

The FOM institute is one of the three scientific institutes of FOM.

The director of this institute plays a dual role, on the one hand guiding and directing the scientific, technical and administrative functions of the laboratory, and on the other hand co-ordinating the national programme in subatomic physics and the Dutch input in the international programmes in these areas. As such it is viewed as a challenging and crucial appointment in the Dutch physics community.

The director's main task will be to develop and guide the scientific policy for high energy and astro particle physics in the Netherlands. The director will have considerable responsibility for obtaining funding for the institute and for technology transfer and outreach.

Candidates should be established physicists of high international repute with both scientific vision and managerial skills. Ideally they should

have experience in both the Dutch and international arenas with the ability to inspire and lead a world class laboratory.

The director will promote the position of the institute in the broader context of society.

The successful candidate will be offered a permanent appointment by FOM. However, the initial appointment as director of the FOM institute will be for a period of 5 years with the possibility of re-appointment for a further period of 5 years. The appointment is at full professorial level.

The terms of employment of the foundation (FOM) are subject to the collective terms of employment (CAO). The employee will become a member of the Foundation State Employees Pension Scheme (ABP).

Further information may be obtained from either mr. B.J. Geerts, (e-mail: ben.geerts@fom.nl) or the chairman of the selection committee, prof. B. de Wit (e-mail: bdewit@phys.uu.nl).

Nominations and applications, which should include a c.v. and list of publications should be sent to mr. B.J. Geerts, head of the Human Resources Department, PO Box 3021, 3502 Utrecht, The Netherlands.

The closing date is 20 February 2004.



The CCLRC is a government-funded science research organisation. We provide world leading research facilities across a broad spectrum of science, engineering and technology. The expertise of our staff, and the research carried out at our three laboratories, are internationally-renowned.

RESEARCH POSITIONS IN EXPERIMENTAL PARTICLE PHYSICS (ATLAS) (VN2491/CC)

The Particle Physics Department has two vacancies to work on the ATLAS silicon tracker system (SCT) and on the development of a real-time system for the ATLAS Level-2 trigger. There will be opportunities to take a significant role in the integration and final commissioning work at CERN, and in the preparation for LHC physics analysis.

Applicants must have a PhD in experimental particle physics, or equivalent experience.

One appointment will be fixed-term for three years, and will suit applicants seeking to develop their interests and expertise in either of the above major areas. The other appointment will be an established post, and the successful candidate will have expertise in one of the areas of work outlined above as well as the potential for leadership and project management. Applicants should indicate whether they are applying for the fixed-term post, the established post, or both.

Further information about the SCT post can be obtained from Dr Mike Tyndel (Tel +44 (0)1235 445246, email: m.tyndel@rl.ac.uk) and at <http://www.cclrc.ac.uk/activity/section=5210> For the Level-2 post further information can be obtained from Dr Fred Wickens (Tel +44 (0)1235 445737, email: f.wickens@rl.ac.uk) and at <http://www.cclrc.ac.uk/activity/section=5209>

The starting salary for the fixed-term post is in the range £20,630 to £25,790, and for the established post is in the range £26,190 to £32,740, (pay award pending).

All applications must be returned by 20th February 2004. Interviews will be held in mid-March 2004.

RF PHYSICIST (VN2488/CC)

ISIS is the world's most powerful source of pulsed neutrons and muons. It currently operates 25 neutron and muon instruments, which provide scientists and engineers with unique tools for studying the structure and dynamics of materials on the atomic/molecular scale. ISIS is based at the Council for the Central Laboratory of the Research Councils (CCLRC) in Oxfordshire.

The source is driven by an 800 MeV proton synchrotron, and a versatile physicist with substantial experience of RF is required to work on the synchrotron RF system consisting of swept frequency ferrite loaded beam accelerating cavities and their thermionic vacuum tube drivers.

The successful applicant will be expected to:

- work with existing RF experts on the six RF systems already installed on the synchrotron, and to propose strategies for ensuring effectiveness and reliability of the system over the next two decades.
- work on commissioning four new RF systems providing a second harmonic addition to the RF waveforms already present in the synchrotron.
- participate in experimental accelerator physics work with a view to enhancing the performance of the synchrotron RF system as a whole.

In the interest of keeping ISIS fully operational, willingness to resolve faults and problems in the RF systems during silent hours would be an advantage.

The candidate would be expected to have a degree in physics and proven experience of particle acceleration in RF fields. Experience of large-scale facility operational environments would be an advantage.

The salary range is between £26,190 and £32,740 (pay award pending).

Further information on this post is available from Adrian Morris, Leader, Synchrotron and Electrical Engineering Group, e-mail a.morris@rl.ac.uk or David Findlay, Acting Head, ISIS Accelerator Division, e-mail d.j.s.findlay@rl.ac.uk

All applications must be returned by 9th February 2004.

Salaries on appointment are awarded according to relevant experience. An excellent index linked pension scheme and a generous leave allowance are also offered.

More information about CCLRC and these posts is available from CCLRC's World Wide Web pages at <http://www.cclrc.ac.uk>.

Application forms can be obtained from: Operations Group, HR Division, Rutherford Appleton Laboratory, Chilton, Didcot, Oxfordshire, OX11 0QX. Telephone (01235) 445435 (answerphone) or email recruit@rl.ac.uk quoting the appropriate reference number.

CCLRC is committed to Equal Opportunities.



COUNCIL FOR THE CENTRAL LABORATORY
OF THE RESEARCH COUNCILS

General Manager

www.dante.net

Location: Cambridge – UK

Excellent Package + Relocation

DANTE, (Delivery of Advanced Network Technology to Europe), is owned by 15 National Research and Education Networks (NRENs) to plan, build and operate the pan-European research network. www.geant.net. Its 30 staff representing 12 different nationalities ensure that project results are delivered on time, to budget and with high levels of reliability. With a turnover of in excess of €50 million, DANTE acts as the managing partner of European networking and related projects. The company also serves as a secretariat and undertakes management and coordination functions on behalf of the other project partners, as well as being responsible for building, managing and operating the network itself.

Due to the impending retirement of one of the two General Managers, we are seeking an individual to take responsibility for the running of DANTE overseeing its technical direction, contractual relationships with the European Commission, and contact with partners. The General Manager will share joint responsibility for all management and staff issues and also for public relations and communications.

The Role:

- Leading the team to undertake and co-ordinate pan-European research networking on behalf of the NRENs.
- Strategic and motivational day-to-day leadership of the team, overseeing the operation and development of the pan-European Research & Education network.
- Liaison with the European Commission and project partners, developing policy and strategy with regard to European research and education networking.

The Candidate:

- A knowledge of technology, networking and the internet and how they can be used to support the strategic objectives of research and education.
- Previous experience in a partner/stakeholder liaison role preferably in a European context.
- A knowledge of the European NREN community through previous work in or with the education or research sectors is desirable.

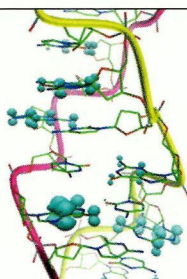
Please reply in confidence, with full career and current salary details, quoting reference JG/5967C

e-mail: response.manager@odgers.com

Fax: +44 (0)20 7529 1000 • www.odgers.com

odgers

**Odgers Ray & Berndtson, 11 Hanover Square,
London W1S 1JJ, UK • Tel: +44 (0)20 7529 1111**



Swiss Centre for Scientific Computing (CSCS);

Manno, Ticino, Switzerland

The CSCS, in close collaboration with prominent Swiss academic and research institutions, plans a substantial development in Grid computing and data centric Grids. As part of this broad program we are pleased to offer new positions in Grid technology applied to particle physics and biomedical science.

We invite you to visit our website

www.cscs.ch

to find out about this exciting development and the interesting positions available.

Contact:

**L. Gilly, HR Officer,
CSCS, Galleria 2,
Via Cantonale,
6928 Manno, Switzerland;
e-mail: lgilly@cscs.ch**

bright futures

Diamond Light Source Ltd. is currently constructing the largest scientific facility to be built in the UK for 30 years. The Diamond synchrotron light source, located at Chilton, will consist of three accelerators - a 100 MeV linac, a 3 GeV booster synchrotron and a 562m circumference 3 GeV storage ring - and an initial complement of 7 beamlines which will be operational for users from 2007.

Exciting opportunities with Diamond

PHYSICISTS/ENGINEERS

Salary will be in the range £35k - £48k for Group Leader positions, £21k - £40k for other positions depending on relevant skills and experience.

Vacancies exist for physicists and engineers at various levels within the Technical Division to support activities in the following areas:

- Accelerator physics
- Insertion devices
- Radio-frequency systems
- Beam diagnostic and feedback systems

Please see our website for further details and specific job numbers.

HEALTH PHYSICISTS

REF. DIA0034

Salary will be in the range £21K - £40K depending on relevant skills and experience.

Physicists are required in the Health Physics group to deal with the radiation safety aspects of the commissioning, operation and development of the Diamond accelerators and beamlines.

Further information about Diamond Light Source and these particular posts is available from our website www.diamond.ac.uk or contact our recruitment team on 01235 445435 (answerphone), 01235 445943 (fax number) for an application form quoting the appropriate reference number. Electronic applications are preferred and should be sent to recruitment@diamond.ac.uk



diamond

Closing date for applications: 30th January 2004

Interviews will take place towards the end of February 2004.

Diamond Light Source Ltd, Rutherford Appleton Laboratory,
Chilton, Didcot, Oxfordshire OX11 0QX



DESY is world-wide one of the leading accelerator centres exploring the structure of matter. The main research areas range from elementary particle physics over various applications of synchrotron radiation to the construction and use of X-ray lasers.

For the running of Free-Electron Lasers like TTF2-FEL and XFEL electron sources with excellent beam quality are needed. For the development of such electron guns a test facility for RF photo injectors is running and will be substantially upgraded at DESY Zeuthen. The development of photoinjectors is based on detailed measurements, corresponding simulations and further development of theoretical models. The laboratory in **Zeuthen** (near Berlin) is searching for a

Postdoc (m/f)

for participating in the photoinjector project. You should have a Ph.D. in physics and be under 33 years of age. You have substantial knowledge and professional experience in one or more of the following fields: accelerator physics, electron beam dynamics, software development for data acquisition systems, hardware development of subsystems of accelerators or beam diagnostics systems. You are expected to take responsibility for sub-projects and will contribute significantly to the experiments, the upgrade and optimization of the electron source. You like to work in a motivated team of physicists and engineers and have a good knowledge of the English language. In the framework of the position shift work may be necessary at times.

Contact to project group: Dr. F. Stephan, phone +49-(0)33762-77338, e-mail frank.stephan@desy.de

The position is limited to 2 years at the beginning.

Salary and benefits are commensurate with public service organisations. DESY operates flexible work schemes, such as flexitime or part-time work. DESY is an equal opportunity, affirmative action employer.

Deutsches Elektronen-Synchrotron DESY
member of the Helmholtz Association

code: 76/2003 · Platanenallee 6 · D-15738 Zeuthen · Germany
Phone +49-(0)33762-77338 · www-zeuthen.desy.de
e-mail: personal.abteilung-zeuthen@desy.de

Deadline for applications: 15.02.2004



UNIVERSITY OF
OXFORD

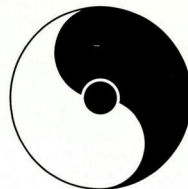
Departmental Lecturer and Research Assistant in R&D for the next Linear Collider

The Subdepartment of Particle Physics, University of Oxford, is seeking two outstanding physicists to play major roles in the use of advanced laser systems to meet the challenging requirements for metrology and beam characterisation for a future linear electron positron collider (LC). The activities involve hardware and software development; one position will be on the LiCAS project, whose aim is to provide a survey and alignment system for the LC; the other will be on the Laser-Wire project, which aims to provide a beam-profile measurement system. The successful candidates will be working in the framework of a concerted UK effort to develop a beam-delivery system for a future LC.

A highly qualified successful candidate will be employed by the University of Oxford as a Departmental Lecturer for a fixed term of up to 6 years. A Research Assistant appointment is for an initial fixed term of 3 years with some possibility of renewal for one more year.

The application deadline is 20th February 2004. Further particulars about the post and information on how to apply are available at <http://www.physics.ox.ac.uk/pnp/jobs/LC-DL-RA-fp.htm> or from Mrs Sue Geddes, +44 (0)1865 273353. Informal enquiries about the projects and these posts may be made to Dr Armin Reichold (a.reichold@physics.ox.ac.uk).

The University is an Equal Opportunities Employer.



RIKEN BNL
Research Center
Brookhaven National
Laboratory

SCIENTIFIC STAFF POSITIONS

Strong Interaction Theory

The RIKEN BNL Research Center (RBRC) at Brookhaven National Laboratory (BNL) carries out a theoretical research program focused on the physics of the Relativistic Heavy Ion Collider (RHIC), heavy ion reactions, hard QCD/spin physics, and lattice QCD. Members of the center work closely with the existing nuclear and high energy physics groups at BNL as well as with the lattice group at Columbia University. The lattice QCD effort makes use of the local one teraflop QCDSF (QCD is a signal processor) and the soon to be completed ten teraflop QCDOC (QCD on a chip) supercomputers. Applications will be considered for Research Associates (two-year appointments) and RIKEN BNL Fellows (up to five-year appointments) for the fall of 2004.

Scientists with appropriate backgrounds who are interested in applying for these theory positions should send a curriculum vitae and have three letters of reference sent to Prof. T.D. Lee, RIKEN BNL Research Center, Building 510A, Brookhaven National Laboratory, Upton, NY 11973. Applications should be received by January 30, 2004. BNL is an equal opportunity employer committed to workforce diversity.

BROOKHAVEN NATIONAL LABORATORY

Visit our website at: www.bnl.gov



The Faculty of Science of the University of Bern
invites applications for a position of

Full Professor of Experimental High Energy Physics and Head of the Laboratory for High Energy Physics

opening March 1, 2006 at the Laboratory of High Energy Physics of the Physics Institute, University of Bern, Switzerland. Current research activities of the Laboratory include work at CERN especially on the ATLAS experiment at LHC, as well as the physics of neutrino oscillations (OPERA) and dark matter (ORPHEUS).

Candidates should have a proven first rate research record in experimental high energy physics. This may include participation in large experiments and the development of novel experimental techniques. She/he should also be prepared to participate actively in the teaching of physics at both the undergraduate and graduate level. As Head of the Laboratory, the successful candidate has overall responsibility for about 30 collaborators and will be a member of the Board of Directors of the Physics Institute.

The University of Bern especially encourages women to apply for this position. Letters of application, including a curriculum vitae, a list of publications, copies of the most important publications, and an outline of past and future research (all in English) should be sent before March 1, 2004 to Prof. G. Jaeger, Dean of the Faculty of Science, Sidlerstrasse 5, CH-3012 Bern, Switzerland.

Further information about the Laboratory can be found at <http://www.lhep.unibe.ch> and enquiries about this position can be made by contacting Prof. W. Benz, Physikalisches Institut, Sidlerstrasse 5, CH-3012 Bern, Switzerland, Phone: +41 31 631-4403, Fax: +41 31 631-4405, e-mail: wbenz@phim.unibe.ch