

RECRUTEMENT

Pour tous renseignements sur des publicités dans le *Courrier CERN*, les dates de publication ou les dates limites, veuillez nous contacter:

Institute of Physics Publishing, Dirac House, Temple Back, Bristol BS1 6BE, UK. Tel: +44 117 930 1026, Fax: +44 117 930 1178

Tarifs par centimètre/colonne: Monochrome £30, 2-couleur £36, 4-couleur £38.



Johannes Gutenberg - Universität Mainz

Institut für Kernphysik der Johannes Gutenberg-Universität Mainz

Post-Doctoral position in accelerator physics

The Institut für Kernphysik has an opening for a post-doc research position, available for a period of two years starting at any time within the next few months.

The Institut für Kernphysik is presently developing the 1.5 GeV c.w. accelerator "MAMI C". The working field of the successful applicant would be on accelerator physics with polarized electron beams, especially concentrated on the development of a compact spin rotation system and precision polarimetry at 14 MeV beam energy.

Salary conditions apply according to the German Bundesangestelltentarifvertrag BAT II a. Application deadline is October 1st, 1999. Interested candidates are encouraged to send their curriculum vitae with the names and addresses of two referees to the personal office: Institut für Kernphysik, Johannes Gutenberg-Universität Mainz z. Hd. Frau Huhn, J.-J.-Becher-Weg 45, 55099 Mainz – Germany

Further information may be obtained by: Dr. Kurt Aulenbacher,
Institut für Kernphysik Johannes Gutenberg-Universität Mainz,
D-55099 Mainz Tel.: ++49 (0) 6131-395804
e-mail: aulenbac@kph.uni-mainz.de



DESY is a physics research laboratory with 1,400 employees and more than 3,000 guest scientists from Germany and abroad. The scientific program includes research in particle physics and synchrotron radiation.

In the framework of an international collaboration, DESY is developing a Free Electron Laser for wavelengths far below the visible. The project is based on the superconducting TESLA Test Accelerator Facility, which provides the technological basis for a future high-energy electron-positron linear collider.

A key contribution to the success of this installation will be the development, construction and commissioning of a number of advanced electron accelerator components. Within the scope this activity, DESY Hamburg invites applications for

3 Postdoctoral positions in Experimental Physics or Electrical Engineering

The successful candidate will be responsible for coordination of work already under way and/or for construction of components to be designed by him/herself.

The contract will be limited to 2 years, with a possible extension for a third year. The salary will be according to the German Civil Service (IIa MTV Angestellte).

Scientists who have recently finished their Ph.D., have experience in this field and are not more than 32 years old, are invited to send their letter of application and three names of referees to:

DESY, Personalabteilung, Notkestraße 85, D-22607 Hamburg,
Tel.: 040 89983617, Fax: 040 89944305,
by October 15th, 1999

Code-No. 92/99

Handicapped applicants will be given preference to other applicants with the same qualification. DESY encourages especially women to apply.



ÉCOLE POLYTECHNIQUE
FÉDÉRALE DE LAUSANNE

L'Ecole polytechnique fédérale de Lausanne met au concours un poste de

Maître d'enseignement et de recherche (MER) en acoustique au Département d'électricité

Le/la titulaire aura pour mission de développer les activités d'enseignement et de recherche, notamment en modélisation des champs acoustiques (rayonnement et propagation). Il/elle proposera une recherche innovatrice en relation avec le contrôle sonore actif. Ces activités s'intégreront dans celles du Laboratoire d'électromagnétisme et d'acoustique en collaboration avec d'autres unités de l'EPFL, ainsi qu'avec d'autres institutions et industries sur le plan national et international. Des aptitudes pour l'enseignement et la gestion de projets, l'excellence scientifique, la personnalité, ainsi que l'expérience industrielle sont des atouts majeurs. Il/elle sera appelé/e à suivre des projets d'étudiants, des travaux de diplôme et de thèse.

Délai d'inscription: 15 octobre 1999. Entrée en fonction: à convenir. Les candidatures féminines sont particulièrement bienvenues. Les personnes intéressées voudront bien demander, par écrit, le dossier auprès de la Présidence de l'Ecole polytechnique fédérale de Lausanne, CE-Ecublens, CH-1015 Lausanne, Suisse, ou par télécopie au no +41 21 693 70 84. Des informations supplémentaires peuvent être obtenues sur le web: <http://www.epfl.ch>, <http://devwww.epfl.ch/>, <http://admwww.epfl.ch/pres/profs.html> ou <http://research.epfl.ch/>

UNIVERSITY OF GLASGOW Department of Physics and Astronomy CENTRAL LABORATORY OF THE RESEARCH COUNCILS JOINT APPOINTMENT LECTURER IN PARTICLE PHYSICS

£17,238 - £30,065

This post is funded jointly for five years, two-thirds time based at Rutherford Appleton Laboratory and one-third at Glasgow. Thereafter you will join the University of Glasgow permanent academic staff. The research work will involve the development and construction of the LHCb detector for the CERN Large Hadron Collider. Teaching and other duties in Glasgow will be agreed with the Head of Department. Applicants should have postdoctoral experience in Particle Physics detector work.

Further particulars are available from

<http://www.gla.ac.uk/Otherdepts/Personnel/recruit/>, Telephone 0044 141 330 4673 or by E-mail: d.saxon@physics.gla.ac.uk, or k.peach@rl.ac.uk.

Applications, including CV, publications list, and the names and addresses of

two referees, should be sent by
16 October 1999 to Prof. D H Saxon,
Kelvin Building, University of
Glasgow, Glasgow G12 8QQ,
Scotland.



The University is committed to equality of
opportunity in employment.
The University of Glasgow is an exempt charity
dedicated to teaching and research.



FACULTY POSITION DEPARTMENT OF PHYSICS UNIVERSITY OF CALIFORNIA, DAVIS

The Department of Physics at the University of California at Davis invites applications for a faculty position in theoretical or observational cosmology. This position has a targeted start date of July 1, 2000, which is negotiable.

The appointment will be at the tenure-track Assistant or tenured Associate Professor level as determined by qualifications and experience.

This position is the second of four new positions created for our cosmology program. The current cosmology group consists of Professors Andreas Albrecht and Robert Becker. The cosmology program will benefit from overlapping interests with our strong departmental programs in nuclear physics, condensed matter and quantum gravity, and especially with our particle physics program. Outstanding persons in all areas of cosmology will be considered. Faculty at UC Davis have full access to both Lick and Keck Observatories. The successful candidate will have a Ph.D. in physics or astrophysics and will be expected to teach at the undergraduate and graduate levels and to conduct an active research program in cosmology.

This position is open until; but to assure full consideration, applications should be received by **November 8, 1999**. To initiate the applications process, request an application package by writing an e-mail message to forms@physics.ucdavis.edu.

Those who do not have access to e-mail should send curriculum vitae, publication list, research statement, and the names (including address, e-mail, fax, and phone number) of three or more references to:

Professor Winston Ko, Chair
Department of Physics
University of California, Davis
One Shields Avenue
Davis, CA 95616-8677

Further information about the department may be found on our website at <http://www.physics.ucdavis.edu>.

The University of California is an affirmative action/equal opportunity employer. The University undertakes affirmative action to assure equal employment opportunity for minorities and women, for persons with disabilities, and for special disabled veterans, Vietnam era veterans, and any other veterans who served on active duty during a war or in a campaign or expedition for which a campaign badge has been authorized.



UNIVERSITE DE GENEVE

La Faculté des Sciences ouvre une inscription pour un poste de Professeur ordinaire en PHYSIQUE THEORIQUE DES INTERACTIONS FONDAMENTALES

Charge : Il s'agit d'un poste à charge complète, comprenant 6 heures de cours par semaine. Recherches dans le domaine de la physique théorique des interactions élémentaires.

Titre exigé : Doctorat ou titre jugé équivalent

Entrée en fonction : 1er juillet 2000, ou date à convenir. Les dossiers de candidature comportant le curriculum vitae, la liste des publications et une liste de références devront être adressés avant le 31 octobre 1999, au Déganat de la Faculté des Sciences, 30 quai Ernest-Ansermet, CH-1211 Genève 4 (Suisse), où peuvent être obtenus des renseignements complémentaires sur le Cahier des charges et les conditions.

NB. Désirant associer tant les femmes que les hommes à l'enseignement et à la recherche, l'Université souhaite recevoir davantage de candidatures féminines.

TENURE TRACK FACULTY POSITION Experimental High Energy Physics Carnegie Mellon University

The Department of Physics at Carnegie Mellon University invites applications for a junior tenure track faculty position in the area of experimental particle physics. The present program consists of experiment 781 at Fermilab, R&D for the BTeV detector at Fermilab, the L3 experiment at CERN, and the CLEO III experiment at Cornell. We are also engaged in work in the CMS collaboration for the LHC.

Applicants for the position should have postdoctoral experience and demonstrated ability in both instrumentation and analysis. The successful candidate is expected to assume a leadership role in his/her experimental involvement during the coming decade. Applicants should also be committed to excellence in graduate and undergraduate education.

The position is nominally available for September, 2000, but an earlier starting time might be arranged. Applications and three (3) letters of recommendation should be sent before October 15, 1999, to:

High Energy Search Committee
ATTN: Prof. James Russ
Department of Physics
Carnegie Mellon University
Pittsburgh, PA 15213, USA
(e-mail: russ@cmphys.phys.cmu.edu)

Reply may be by email, followed by paper copy.

Carnegie Mellon is an equal opportunity/affirmative action employer



THE UNIVERSITY
of LIVERPOOL

Department of Physics

Research Associates in Experimental Particle Physics (3 Posts)

Initial salaries within the range £16,286 - £24,479 pa

The Liverpool Particle Physics research group has vacancies for Research Associates to work on the following experiments:

BABAR (SLAC) - The Primary goal of the BABAR experiment is the systematic study of CP violation in the decay of B mesons at the high luminosity B factory at SLAC. The successful candidate will participate in the operation of the experiment and in the physics analysis.

CDF (FERMILAB) - The CDF experiment at Fermilab will search for new particles in particular the Higgs Boson and Supersymmetry. The successful candidate will join the group in the installation and operation of a high precision silicon microstrip detector close to the beam pipe to improve the identification of B mesons and participate in the physics analysis.

H1 (HERA) - The H1 group is participating in the HERA upgrade as well as continuing its present program on high p_T jets, neutral and charged current measurements. The successful candidate will collaborate in the forward tracker upgrade and carry out precision studies in the electroweak sector with improved luminosity.

Candidates will have a PhD in experimental particle physics and experience in HEP experiments. The posts are supported by PPARC and will be for three years in the first instance. Candidates will be expected to spend time at the overseas laboratories.

Informal enquiries to Professor E Gabathuler on 0151 794 3349 or email: erwin@hep.ph.liv.ac.uk Departmental web site <http://www.ph.liv.ac.uk>

Quote Ref: B/196/CC

Closing Date: 1 October 1999

Further particulars and details of the application procedure may be requested from the Director of Personnel, The University of Liverpool, Liverpool L69 3BX on 0151 794 2210 (24 hr answerphone) or via email: jobs@liv.ac.uk Web site at <http://www.liv.ac.uk>

COMMITTED TO EQUAL OPPORTUNITIES



UNIVERSITY OF
CAMBRIDGE

Department of Physics, Cavendish Laboratory Research Associate in High Energy Physics

Applications are invited for a new PPARC-funded postdoctoral research associateship in high energy physics to work on CP violation in the B system through the LHCb experiment at CERN. The successful candidate will have the opportunity to develop the RICH particle identification detectors, together with the associated high level trigger designs, software and physics performance studies.

The post is available from 1st October 1999 and will be for a period of three years. The successful candidate will have submitted a PhD thesis in experimental particle physics before taking up appointment.

Starting salary is in the range £15,735 to £18,275 per annum (under review)

Further information may be obtained from Dr. V. Gibson, e-mail: gibson@hep.phy.cpm.ac.uk, telephone +44 1223 337373. Applications, including a CV and the names and addresses of three referees, should be sent by 17th September 1999 to Dr. J. Carter, Cavendish Laboratory, Madingley Road, Cambridge CB3 0HE, UK. e-mail jrc1@hep.phy.cam.ac.uk.

The University is committed to equality of opportunity.



ÉCOLE POLYTECHNIQUE
FÉDÉRALE DE LAUSANNE

L'Ecole polytechnique fédérale de Lausanne met au concours un poste de

Professeur/e en mathématiques appliquées au Département de mathématiques

Les candidats/tes doivent être des mathématiciens reconnus au niveau international et dont la réputation est attestée par des publications à la pointe de leur domaine. Les candidats/tes de tous les domaines des mathématiques appliquées sont invités à postuler. Les spécialistes dans les domaines des probabilités ou des statistiques, de la géométrie différentielle, des mathématiques discrètes et de l'optimisation sont particulièrement encouragés à postuler. Une aptitude pour la collaboration avec les ingénieurs et le travail multidisciplinaire est un atout. L'enseignement constitue une responsabilité importante et le poste exige un fort intérêt et du talent pour l'enseignement ainsi qu'une bonne capacité à diriger des doctorants et des chercheurs avancés en mathématiques.

L'EPFL est une université technique reconnue internationalement. Elle offre des salaires compétitifs, des crédits d'installation substantiels et une excellente infrastructure de recherche et d'enseignement. Les trois postes mis au concours sont des postes de professeur/e ordinaire ou extraordinaire.

Délai d'inscription : 29 octobre 1999. Entrée en fonction: à convenir.

Les personnes intéressées voudront bien demander, par écrit, le dossier auprès de la Présidence de l'Ecole polytechnique fédérale de Lausanne, CE-Ecublens, CH-1015 Lausanne, Suisse, ou par télécopie au no +41 21 693 70 84. Des informations supplémentaires peuvent être obtenues sur le web: <http://www.epfl.ch>, <http://dmawww.epfl.ch/>, <http://admwww.epfl.ch/pres/profs.html> ou <http://research.epfl.ch/>

EXPERIMENTAL COSMIC RAY PHYSICS University of Utah

The Physics Department at the University of Utah is seeking qualified candidates for a tenure track position in Experimental Cosmic Ray Physics at the Associate Professor or Full Professor level. We seek candidates with strong commitments to both teaching and research. Successful candidates will be expected to take a leadership role in the work of the High Resolution Fly's Eye (HiRes) experiment and allied efforts, as well as teach undergraduate and graduate courses in Physics.

Candidates should submit their curriculum vitae, list of publications and three letters of recommendation by
October 15, 1999 to:

Cosmic Ray Faculty Search Committee
Department of Physics
University of Utah
115 S. 1400 E., #201
Salt Lake City, Utah 84112

The University of Utah is an Affirmative Action Equal Opportunity Employer. It encourages applications from women and minorities and provides reasonable accommodations to the known disabilities of applicants and employees.



The Kernfysisch Versneller Instituut is a university institute funded jointly by the University of Groningen (RuG) and the Dutch Foundation for Fundamental Research on Matter (FOM). The KVI has at its disposal the superconducting cyclotron AGOR (K=600) for outstanding research in nuclear physics. The AGOR cyclotron, with its very advanced ancillary equipment, has a wide appeal to the international nuclear physics community. The AGOR facility has been recognized together with the partner institutes TSL Uppsala and IKP/Forschungszentrum Jülich as the large-scale facility LIFE (Light-Ion Facility Europe).

The KVI is looking for

Staff physicist accelerator group F/M

The accelerator group is responsible for maintaining, operating and developing the AGOR-cyclotron facility. The successful candidate will actively take part in the research program to improve (the operation of) the facility and to develop new applications. He/she will provide support to the cyclotron operators and users at an expert level and assist in the operation and maintenance of the facility. Furthermore he/she will contribute to the education program of the KVI and the physics department of University of Groningen.

Profile

- A recently completed university education in (technical) physics or a related subject.
- First job experience, equivalent to Ph.D. level, required.
- A broad interest in relevant fields, such as cryogenics, RF techniques, accelerator physics, high vacuum and analogue electronics.
- Team worker.

Information

For further information on this position contact dr. S. Brandenburg, phone (+31)503633599, Email Brandenburg@kvi.nl

Terms of employment

Initial appointment for two years followed by tenure in case of good performance.

Salary up to a maximum of NLG 98729 gross per year, depending on education and experience. Career perspective in case of excellent performance: annual salary up to NLG 112518 gross.

The employee is admitted to the ABP Pension Scheme.

Application

Applicants are requested to submit a curriculum vitae addressing specifically scientific and technical qualifications, a list of publications with an indication of the most relevant for the application and the names and addresses of at least three references before 1 October 1999 to

Kernfysisch Versneller Instituut, attn. Mrs. A.M. van der Woude (Personnel Dept.), Zernikelaan 25, 9747 AA Groningen, The Netherlands.

Permanent staff position experimental nuclear physics F/M

We are presently seeking an outstanding candidate to fill a permanent staff position in experimental nuclear physics. The successful candidate is expected to develop a strong research program in the field of nuclear physics, in first instance in nuclear structure physics, using mainly the facilities at the KVI. These are, among other things, the superconducting cyclotron AGOR and the BBS magnetic spectrometer with its focal-plane detection systems, built at IPN Orsay and by the EuroSuperNova collaboration. Intermediate energy polarized proton and deuteron beams as well as light heavy ions (at this moment up to 20Ne) are available for studies in the field. The KVI offers many opportunities for research in the various subfields of nuclear structure physics taking advantage of many Collaborations with institutes in Europe, the US and Japan.

Profile

- Ph.D. in nuclear physics.
- Candidate must show a high promise for excellence in research and teaching.
- At least a few years of experience at the post-doctoral level.
- Technical expertise in the fields of charged-particle beam guiding systems, detector physics and techniques for data acquisition and data analysis.

Information

For further information, please contact Prof. dr. M.N. Harakeh, phone (+31)503633599, or Email Harakeh@kvi.nl or dr. A.M. van den Berg, phone (+31)503633629 or Email Berg@kvi.nl

Terms of employment

Initial appointment for two years followed by tenure in case of good performance.

Salary up to a maximum of NLG 98729 gross per year, depending on education and experience. Career perspective in case of excellent performance: annual salary up to NLG 112518 gross.

The employee is admitted to the ABP Pension Scheme.



UNIVERSITY OF OXFORD

Department of Physics Postdoctoral Research Assistant

We are looking for an outstanding postdoctoral researcher to participate in the MINOS experiment. The Oxford group is working on the near detector photo multiplier tubes, the HV and time distribution systems, and playing a major role in the development of the object oriented, ROOT based off-line software.

The candidate is expected to have demonstrated excellence in hardware and software related work and to play a leading role in the design, testing and building of the near detector PMT system, as well as in the physics exploration of MINOS. Some contribution to the detector installation is expected, which could involve spending time at Fermilab or Soudan. A PhD in particle physics or a related field is required.

The starting salary (RS1A), in the range of £16,286 - £24,479 p.a., will depend upon experience. The post, funded by PPARC, would be initially for a period of 2 years, starting as soon as possible.

Letters of application, including a description of research experience, a list of up to 10 most significant publications, a statement of interest related to the MINOS experiment, Curriculum Vitae and the names of three referees should be sent to Miss C Hinton, Nuclear & Astrophysics Laboratory, Keble Road, Oxford OX1 3RH, fax: +44 (1865) 273418, email: c.hinton@physics.ox.ac.uk Applicants should ask their referees to send their references directly to Miss Hinton by the closing date, which is 30th September 1999. Further particulars may be obtained from <http://www.physics.ox.ac.uk/jobs/post-doc-minos-jobs.html> or the above address.

The University is an Equal Opportunities Employer.

UNIVERSITY of GLASGOW

Department of Physics and Astronomy RESEARCH ASSOCIATE IN EXPERIMENTAL PARTICLE PHYSICS

£16,286 - £24,479

This new position is available for up to two years in the group developing charged particle and X-ray detectors. The Glasgow group has made major contributions to the development of semiconductor pixel detectors in silicon and GaAs. This position is funded by PPARC as a ROPA award to investigate prospects for radically new detector technologies which will provide enhanced performance. You will be an outstanding applicant with experience in Experimental Particle Physics and/or detector development who has, or is about to obtain, a PhD. The post is based in Glasgow but is likely to involve periods of work at the CERN laboratory, Geneva.

Informal enquiries to:

Tel. 0044 141 330 5890 or 0044 141 330 4702;

E-mail: d.saxon@physics.gla.ac.uk or

k.smith@physics.gla.ac.uk Visit departmental

website at: <http://www.physics.gla.ac.uk>

Applications, including CV, publications list, and the names and addresses of two referees, should be sent by 30 September 1999 to Prof. K.M.Smith, Kelvin Building, University of Glasgow, Glasgow G12 8QQ, Scotland.

The University is committed to equality of opportunity in employment.

The University of Glasgow is an exempt charity dedicated to teaching and research.

Browse our Web site for further information
<http://www.cerncourier.com>



Max-Planck-Institute for Nuclear Physics Heidelberg

The Max-Planck-Institute for Nuclear Physics seeks an outstanding candidate to lead a research group ("Nachwuchsgruppe") devoted to the development of

Next-generation solar neutrino experiments

The successful candidate should have several years of post-doctoral research experience and an record of achievement in the relevant research areas.

The appointment will be at a level equivalent to Assistant/Associate Professor (C2/C3), for five years. Additional positions for post-doctoral fellows and/or Ph.D. students as well as space and operating and equipment funds will be made available, subject to negotiation.

Candidates should submit a curriculum vitae, a list of publications, a short description of their future research plans, and the names of three scientists who are familiar with the candidate's research accomplishments and scientific potential.

The Max-Planck-Institute strives for the advancement of women in research and teaching.

Applications from disabled scientists are welcome, in case of equal qualifications, they will be given preferential consideration.

Applications should be sent by September 30, 1999 to:

**Geschäftsführender Direktor
Max-Planck-Institut für Kernphysik
Postfach 10 39 80
69029 Heidelberg**



HARVARD UNIVERSITY

Department of Physics

Faculty Positions in Experimental Particle Physics

The Harvard University Department of Physics plans to make two faculty appointments in high energy experimental physics. Initial appointments are at the assistant professor level, with promotion possible to associate professor and to tenured professor. In exceptional cases, we may consider candidates for the position of associate professor.

The present high energy experimental program consists of groups working on CDF at Fermilab, the CLEO Experiment at Cornell, the MINOS experiment at Fermilab/Soudan and the ATLAS Experiment at CERN. Applicants for the position should have postdoctoral experience with demonstrated ability in instrumentation and analysis, and should have a demonstrable aptitude for teaching. The successful candidates are expected to rise to leadership roles in their endeavors over the course of their junior faculty appointments.

The positions both have the nominal starting date of September 2000, but an earlier starting date could be arranged.

Applications, including a curriculum vitae, a statement of interest and three letters of recommendation should be sent before October 30, 1999 to:

High Energy Search Committee

Attn: Prof. John Huth, Dr. George Brandenburg
High Energy Physics Laboratory, 42 Oxford Street, Harvard University,
Cambridge MA 02138
(e-mail: huth@physics.harvard.edu, brandenburg@physics.harvard.edu)

Harvard University is an equal opportunity/Affirmative Action Employer.



ASSISTANT RESEARCHER University of California Berkeley

The Physics Department of U.C. Berkeley, contingent on available funding, is seeking an Assistant Researcher with a strong background in experimental atomic physics to participate in the development of instrumentation for sensitive magnetometric measurements and fundamental discrete symmetry tests. The candidate will have the opportunity to participate in experimental runs and data analysis while developing state-of-the-art instruments. Experience with atomic beams, diode lasers, nonlinear laser spectroscopy and familiarity with Mathematica, Autosketch, LabView and Axum software packages is highly desirable.

This is a 3-year position contingent on continuation of funding. Salary is based on current University of California salary scales. Applicants should send a resume, publications list, three letters of recommendation, and a brief statement of research interests and details of experience/skills to:

*Carol Dudley, Physics Department, 366 Le Conte Hall,
Berkeley, CA, 94720-7300. Application materials must be
postmarked by **October 15, 1999**. The University of
California is an affirmative action / equal opportunity
employer.*

— ASSOCIATE SCIENTISTS —

The Beams Division of Fermi National Accelerator Laboratory (Fermilab) has two excellent opportunities for an Associate Scientist: one in the *Beam Physics Department* and one in the *Antiproton Source Department*. Associate Scientist is the normal entry-level position for scientific appointments. The initial appointment will be for three years.

— Beam Physics —

The successful candidate will be expected to focus on accelerator physics relevant to the Fermilab research program, but will also have some opportunity for self-directed research. The duties will include calculations and modeling of accelerator systems and particle beam motion. The work will support Fermilab accelerators as well as studies of future accelerator facilities and advanced accelerator concepts.

A Ph.D. in Physics and at least 2 years of postdoctoral experience in accelerator physics, high energy physics, or a related field is required. Excellent communication skills and leadership potential are also required. Other requirements include demonstrated analytical and computational skills and a broad general knowledge of accelerator physics. Expertise in intensity-dependent beam effects and beam instabilities would be particularly useful, but not required.

— Antiproton Source —

The successful candidate will assume a lead role in the commissioning and operation of the Fermilab Antiproton Source for Run II and beyond. The successful candidate will also be involved in the design of future improvements to the stochastic cooling systems, diagnostic systems, and lattice and beam line systems.

Essential functions of this position include running shifts for accelerator operation, writing accelerator control programs in the C language, and using beam diagnostic equipment. A Ph.D. in physics and at least 3 years of experience in accelerator physics, high energy physics, or a related field is required.

Located 40 miles west of downtown Chicago, on a campus-like setting, Fermilab provides its employees with opportunities for personal and professional growth, competitive salaries, and an attractive benefit package. Applicants are requested to forward their curriculum vitae and the names of at least three references to: Dr. John Marriner, Head, Beams Division, Fermi National Accelerator Laboratory, P.O. Box 500, M.S. 306, Batavia, IL 60510-0550, U.S.A. EOE M/F/D/V



Fermilab

Minds Over Matter



FACULTY POSITIONS IN EXPERIMENTAL PHYSICS

University of Oregon

The Physics Department at the University of Oregon invites applications for at least two faculty positions in experimental physics to start in the 2000-2001 academic year. We expect to fill these positions at the rank of tenure-track assistant or associate professor, but in exceptional cases will consider tenured appointments at any rank. The search is targeted towards, but is not limited to, the following research areas.

Atomic and/or Optical Physics, Biophysics, High Energy Physics, Soft Condensed Matter Physics.

Salary will be commensurate with qualifications and start-up funds will be available. Applicants should have a Ph.D. in physics or a related discipline and an outstanding record of research accomplishments. Some prior teaching experience is also desirable. Successful candidates will be expected to teach at the undergraduate and graduate levels and conduct vigorous research programs. Collaborations with, and membership in, various research institutes will be possible. More information about the department and related units can be found at <http://zebu.uoregon.edu/physics.html>.

Candidates should send a current curriculum vita, a list of publications, and a statement of current research interests and future research plans, and should arrange to have three letters of recommendation submitted to: **Chair, Search Committee, Department of Physics, University of Oregon, Eugene, OR 97403-1274. Letters may be sent by email to search@physics.uoregon.edu.** To guarantee full consideration, applications should be received by November 1, 1999, but applications will continue to be reviewed until the positions are filled.

The University of Oregon is an EO/AA/ADA institution committed to cultural diversity.



Johann Wolfgang Goethe-Universität Frankfurt am Main

An der Goethe-Universität ist im **Fachbereich Physik am Institut für Kernphysik** eine

C-4 Professur für Experimentalphysik (atomare und subatomare Physik)

(Nachfolge K. Bethge)

zu besetzen.

Die Bewerberin/Der Bewerber muß in einem der Fachgebiete Kernphysik, Atomphysik oder Hochenergiephysik wissenschaftlich ausgewiesen sein. Wir erwarten die Bewerbung von Kandidatinnen oder Kandidaten, die führend an der wissenschaftlichen Planung und der Gestaltung eines neuen Instituts (2003/2004) und einem internationalen Graduiertenkolleg teilnehmen wollen und dabei ein ideales Umfeld für ihre eigene Forschungsrichtung aufbauen können. Der Schwerpunkt dieser Forschung sollte in Frankfurt liegen, dabei soll aber die Kooperation mit der GSI Darmstadt und mit internationalen Forschungs-Kollaborationen gesucht werden. Wir erwarten eine intensive Beteiligung an den Lehraufgaben des Fachbereichs.

Die Bewerberinnen oder die Bewerber haben sich im Falle ihrer Berufung an der Selbstverwaltung der Universität zu beteiligen.

Die Universität strebt die Erhöhung des Anteils von Frauen am wissenschaftlichen Personal an und fordert daher Frauen nachdrücklich auf, sich zu bewerben.

Schwerbehinderte Bewerberinnen oder Bewerber werden bei der Stellenbesetzung im Rahmen der geltenden gesetzlichen Bestimmungen bevorzugt behandelt.

Es gelten die Berufungsvoraussetzungen der §§ 75 und 76 des Hessischen Hochschulgesetzes (HHG). Textauszüge werden auf Wunsch zugesandt.

Bewerbungen mit den üblichen Unterlagen (Lebenslauf, Zeugnisse und Urkunden, Verzeichnis der Lehrveranstaltungen und Schriftenverzeichnis - Schriften nur auf Aufforderung -) sind innerhalb von **6 Wochen** an den **Dekan des Fachbereichs Physik, Goethe-Universität, Postfach 11 19 32, 60054 Frankfurt (Paketanschrift: Senckenberganlage 31, 60325 Frankfurt)** zu richten.



FACULTY POSITIONS IN PHYSICS

University of California Berkeley

The Physics Department of the University of California, Berkeley intends to make one or more faculty appointments effective July 1, 2000. Candidates from all fields of physics are invited to apply; however applications in the fields of theoretical astrophysics and experimental atomic physics are particularly encouraged. Appointments at both tenure-track assistant professor and tenured levels will be considered.

Please send a curriculum vitae, bibliography, statement of research interests, and a list of references to:

Professor Roger W. Falcone, Chair, Department of Physics, University of California, 366 LeConte Hall #7300, Berkeley, CA 94720-7300, postmarked by Tuesday, November 23, 1999. E-mail applications will not be accepted. Applications submitted after the deadline will not be considered.

The University of California is an Equal Opportunity, Affirmative Action Employer.



ÉCOLE POLYTECHNIQUE
FÉDÉRALE DE LAUSANNE

Professeur/e assistant/e en procédés de microfabrication sur silicium au Département de microtechnique

Les activités liées au poste au concours toucheront aux technologies du silicium dérivées de la microélectronique, en particulier au développement de nouveaux procédés de fabrication de micro- et de nanostructures, aboutissant à la réalisation de microsystèmes pour des applications industrielles. Les recherches envisagées seront de haute tenue scientifique et comporteront des applications potentielles concrètes. Le/la titulaire du poste sera appelé/e à contribuer à l'enseignement, suivre des projets d'étudiants, des travaux de diplôme et de thèse. L'excellence scientifique, la personnalité, ainsi que l'expérience industrielle sont des atouts majeurs. Des capacités à conduire une équipe de **recherche sont nécessaires. De l'expérience et du goût pour le développement de projets en collaboration avec l'industrie sont des avantages.**

Les candidatures féminines, ainsi que les candidatures des personnes correspondant aux exigences du programme "relève" de la Confédération suisse sont encouragées.

Délai d'inscription: 15 novembre 1999. Entrée en fonction: à convenir. Les personnes intéressées voudront bien demander, par écrit, le dossier auprès de la Présidence de l'Ecole polytechnique fédérale de Lausanne, CE-Ecublens, CH-1015 Lausanne, Suisse, ou par télécopie au no +41 21 693 70 84. Des informations supplémentaires peuvent être obtenues sur le web: <http://www.epfl.ch>, <http://dmtwww.epfl.ch/>, <http://admwww.epfl.ch/pres/profs.html> ou <http://research.epfl.ch/>

UNIVERSITY of GLASGOW

Department of Physics and Astronomy RESEARCH ASSOCIATE IN PARTICLE PHYSICS

£16,286 - £24,479

This new position is available, initially for up to two years with the possibility of extension, on the ZEUS experiment at DESY. The Glasgow group has made major contributions to the analysis of deep inelastic scattering and hard photoproduction. We are looking for an outstanding applicant with experience in Experimental Particle Physics who has, or is about to obtain, a PhD. The post is based in Glasgow but will involve periods of work in Hamburg.

Further particulars are available from

<http://www.gla.ac.uk/Otherdepts/Personnel/recruit/>

Telephone 00 44 141 330 4673 or by

E-mail: d.saxon@physics.gla.ac.uk

Applications, including CV, publications list, and the names and addresses of two referees, should be sent by 30 September 1999 to Prof. D H Saxon, Kelvin Building, University of Glasgow, Glasgow, G12 8QQ Scotland.

The University is committed to equality of opportunity in employment.

The University of Glasgow is an exempt charity dedicated to teaching and research.

Research Associate

Experimental High Energy Physics

The particle physics group at TRIUMF has an opening for a Research Associate to participate in experimental studies of kaon decays. E787 at BNL has reported evidence for especially interesting rare decays, and the data set will be greatly expanded during the next few years using an upgraded detector. The group is also developing new experiments and is involved in advanced detector and electronics R&D using extensive facilities at TRIUMF. A recent Ph.D. in experimental particle physics is required and expertise in drift chambers, calorimetry, electronics, and data analysis and simulation would be assets. Applicants should send a CV by Nov. 30, 1999 and arrange for three letters of reference to be sent to **Dr. Douglas Bryman, TRIUMF, 4004 Westbrook Mall, Vancouver, BC Canada V6T2A3. For further information see www.triumf.ca/homepage.html or contact doug@triumf.ca.**

Postdoctoral Position in DZero University of Michigan

The University of Michigan High Energy Physics Group expects to fill a postdoctoral position work on the Dzero experiment at Fermilab. The Dzero detector is currently undergoing an extensive upgrade and expects to take data again next year. Our group is responsible for the central preshower detector of the Dzero upgrade. Our physics interests are top quark physics, Higgs searches and new phenomena. The successful candidate will be expected to work on the commissioning of the central preshower detector and to play a leading role in Run II physics analyses. Applicants should send their curriculum vitae and arrange to have three letters of recommendation sent to:

**Prof. Jianming Qian, Department of Physics,
The University of Michigan, Ann Arbor, MI 48109.**

by November 1, 1999

E-mail inquiries should be addressed to qianj@umich.edu. The University of Michigan is an equal opportunity/affirmative action employer.

UNIVERSITY OF TORONTO

Tenure Track Faculty Position Department of Physics

Experimental Nonlinear or Biological Physics

The Department of Physics will make a tenure track appointment at the rank of Assistant Professor with an expected starting date of **1 July 2000**. An appointment at a higher rank may also be considered.

We seek candidates with a Ph.D. in Physics, with proven or potential excellence in both research and teaching. Our goal is to find a candidate with a strong experimental background and an innovative, interdisciplinary outlook. We are interested in the general area of physics far from equilibrium: nonlinear physics (e.g. pattern formation, granular media, fracture) or biological physics (e.g. DNA dynamics, chemotaxis). We also invite outstanding candidates working in related areas of experimental soft condensed matter physics to apply. Salary will be commensurate with qualifications and experience.

Applications, including a curriculum vitae, a summary of proposed research and three letters of reference should be sent to:

Professor Pekka Sinervo

Chair

Department of Physics

University of Toronto

60 St. George Street

Toronto, Ontario, M5S 1A7, Canada

The deadline for the receipt of applications and letters of recommendation is 30 November 1999. We urge prospective candidates to visit our home page at <http://www.physics.utoronto.ca/>.

The University of Toronto is committed to employment equity and encourages applications from all qualified individuals including women, members of visible minorities, aboriginal persons, and persons with disabilities.

MIT

FACULTY POSITION

EXPERIMENTAL HIGH ENERGY PHYSICS

Physicists at MIT currently pursue the interesting challenges of searches for antimatter and dark matter in space (AMS), evaluation of space data from the 1998 flight, and the design of AMS02 for a flight in 2003 to the International Space Station for a long term measurement with online analysis and flight operations controlled from MIT. This program would welcome new members, but candidates with other research interests will be considered.

Interested candidates should contact: **Professor Ulrich Becker, Chair, Search Committee, MIT, Room 44-120, 77 Massachusetts Avenue, Cambridge, MA 02139-4307.**

The deadline for applications is November 1, 1999.



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UNIVERSITY OF WISCONSIN-MADISON

The Department of Physics, University of Wisconsin-Madison invites applications for a tenure track position at the assistant professor level in experimental nuclear physics with the appointment to begin in August, 2000.

The appointment may be at a higher rank if qualifications and experience warrant. A Ph.D in physics is required. Commitment to teaching at the graduate and undergraduate levels is expected. Applications from outstanding candidates in all areas of experimental nuclear physics will be considered, but individuals with interests in neutrino physics, fundamental interactions and nuclear astrophysics are particularly encouraged to apply.

Applicants should submit a letter of application outlining their qualifications and interests with a resume and publications list, and arrange to have at least three letters of reference sent to Lee G. Pondrom, Chair, Department of Physics, UW-Madison, 1150 University Avenue, Madison, WI 53706-1390 by December 1, 1999. The material submitted should provide evidence of teaching skills and the ability to carry out an independent research program.

The University of Wisconsin-Madison is an equal opportunity/affirmative action employer and especially encourages women and minorities to apply. Unless confidentiality is requested in writing, information regarding the applicants must be released upon request. Finalists cannot be guaranteed confidentiality.



Postdoctoral Position

High-Energy Physics-BaBar Experiment University of South Carolina

The high-energy Physics group at the USA, Columbia, SC, seeks applicants for postdoctoral positions beginning no later than **Nov 1, 1999**. The group is currently engaged in high-energy experiments including BaBar for which we seek a postdoc. Applicants, who must have a recent Ph.D. in high-energy Physics, should submit a vita, list of publications, and the names and address of at least three professional references by October 1, 1999 to

Professor M. V. Purohit, Department of Physics and Astronomy, University of South Carolina, Columbia, SC 29208.

The USC is an Affirmative Action/Equal Opportunity Employer. Women and minorities are encouraged to apply.



VISITING POSTDOCTORAL FELLOW University of California Berkeley

The Physics Department of the University of California at Berkeley is seeking a visiting postdoctoral fellow with a strong instrumentation background to participate in the development of CCD's and CCD cameras for our astrophysics projects. The instrumentation developments will be closely associated with our ongoing observational Supernova Cosmology Project led by Dr. Saul Perlmutter. The goal of the project is to measure the cosmological parameters using high-redshift supernovae that are found and studied in a systematic search at large optical telescopes. The candidate will have the opportunity to participate in the data analysis and reduction with this project while developing state-of-the-art instruments. The research group is associated with the LBNL MicroSystems Laboratory where state-of-the-art CCD's are fabricated, with the Institute for Nuclear and Particle Astrophysics (INPA) at Berkeley Lab and the Center for Particle Astrophysics (CfPA) at the University of California, Berkeley. It actively participates in collaborative research and seminars with the other investigators working on similar or related scientific problems.

This is a 3-year position contingent on continuation of funding. Salary will be \$43,000 per year.

Applicants should send a resume, publications list, three letters of recommendation, and a brief statement of research interests and details of experience/skills to Carol Dudley, Physics Department, 366 Le Conte Hall, Berkeley, CA 94720-7300. Application materials must be post-marked by **October 15, 1999**.

The University of California is an affirmative action / equal opportunity employer.

UNIVERSITY OF REGINA POST-DOCTORAL RESEARCH ASSOCIATE

The subatomic physics group at the University of Regina is seeking applications from recent Ph.D. graduates in either intermediate energy or high energy experimental physics. The group's research activities are centered at the Jefferson Laboratory, on topics such as pion and proton electric form factor measurements. There is also the opportunity to contribute to the upgrade of JLab's Halls C and D. See <http://www.phys.uregina.ca/sparro/> for more information.

The initial appointment is made for one year and is renewable for two more years, based upon mutual agreement and funding considerations. The search will remain open until the position is filled.

Applicants should submit their C.V.s and arrange to have three letters of reference sent to:

**Dr. G.J.Lolos, Department of Physics, University of Regina,
Regina, SK S4S-0A2, Canada. E-Mail: gjlolos@mecna.cc.uregina.ca,
TEL: (306) 585-4248, FAX: (306) 585-5659.**

CERN COURIER RECRUITMENT BOOKING DEADLINES

October: 17 September

November: 15 October

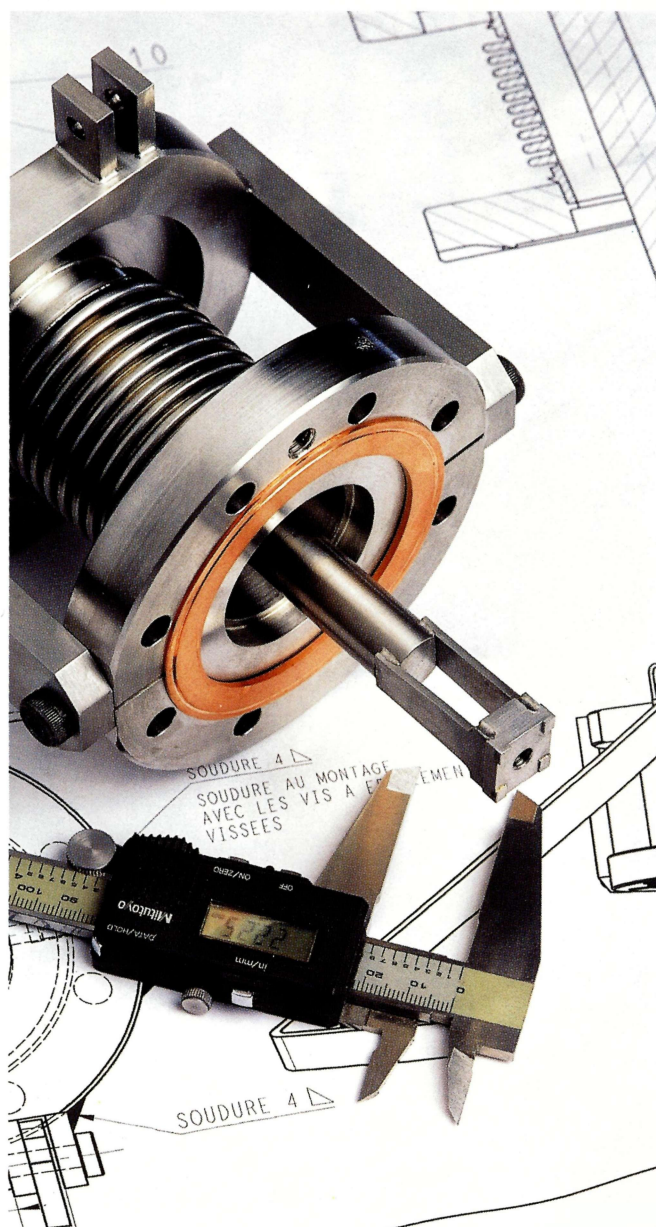
Contact Chris Thomas:

Tel: +44 (0)117 930 1031

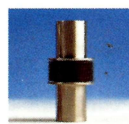
Fax: +44 (0)117 930 1178

E-mail: chris.thomas@iopublishing.co.uk

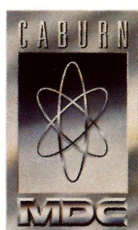
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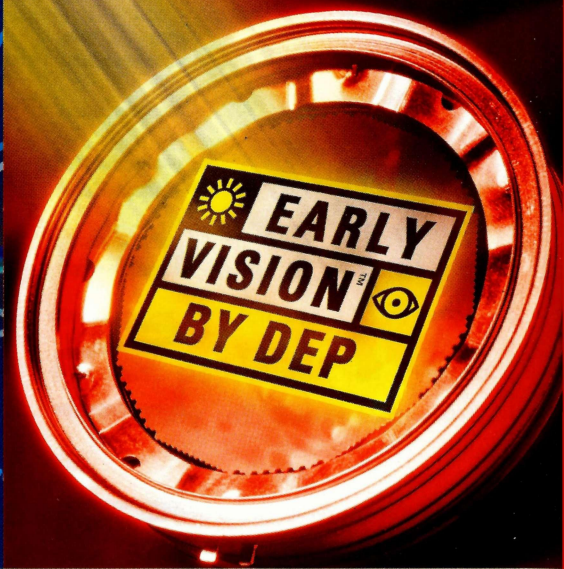
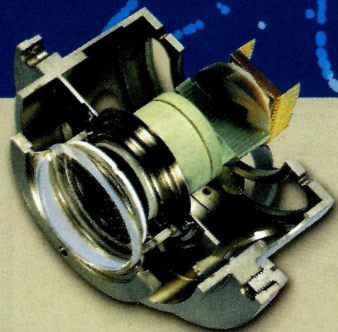
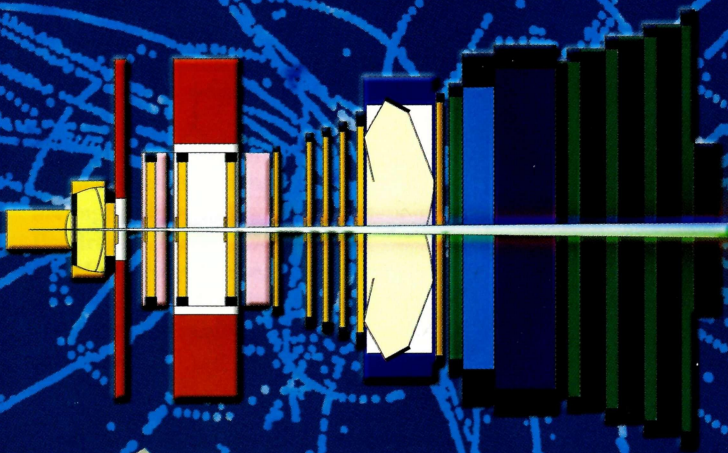


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