

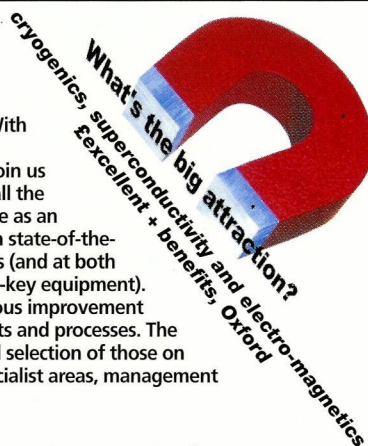
RECRUTEMENT

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

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Cryogenic Engineers

Working with cryogenic systems (including dilution refrigeration and cryostat structures), you'll be involved in the full life cycle, from concept specification and design through to test and installation. An excellent understanding of cryogenic systems and their manufacture, innovative, with customer facing and PC skills. For this job specialist knowledge should include thermal analysis, cryogenic design and vacuum technology.

Magnet Design & Mechanical Engineers

Taking a lead in the design of superconducting magnet systems (including coil winding and insulation), you'll be involved from concept and specification through to manufacture and testing, so you'll need extensive experience of mechanical design; to include exposure to composite structures, vacuum technology and/or thermal analysis; or Electro-magnetic analysis to include coil design and finite element analysis. A relevant degree, good customer - facing skills and innovative approach are essential.

For an initial discussion, contact Richard Hall on +44 (0) 208 570 5327 or write to him at TMP Worldwide, 3rd Floor, 6 Lampton Road, Hounslow, Middlesex TW3 1JL, UK. Ideally Email your CV to: rhall@tmpw.co.uk



CASE WESTERN RESERVE UNIVERSITY RESEARCH ASSOCIATE in EXPERIMENTAL PARTICLE ASTROPHYSICS

The Physics Department at CWRU seeks a Research Associate to join the Cryogenic Dark Matter Search Experiment, CDMS II. This second-generation experiment, now funded for a 6-year period, features cryogenic detectors with unprecedented rejection of background events which will push the frontier in the worldwide effort to detect WIMP dark matter. The Research Associate will take a lead role in detector optimization and characterization at a fully-commissioned laboratory at CWRU, and may work in other areas including detector operations, data analysis, and Monte Carlo simulations. Experience with cryogenic detectors desirable but not essential. A Ph.D. or equivalent is required. Send a CV and 3 letters of recommendation to Prof. Dan Akerib, Department of Physics, Case Western Reserve University, 10900 Euclid Avenue, Cleveland, Ohio 44106-7079, or inquiries to dsa5@po.cwr.edu. Preference will be given to applications received by 31 December 2000 but will be accepted until the position is filled.

CWRU is an Equal Opportunity/Affirmative Action employer.
Women and minorities are strongly encouraged to apply.

FACULTY POSITION IN ACCELERATOR PHYSICS at



FACULTY POSITION IN ACCELERATOR PHYSICS

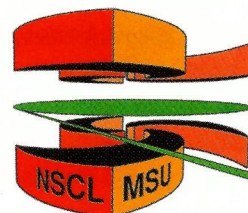
Michigan State University is seeking outstanding candidates to fill a tenure-track position in accelerator physics. The successful candidate will hold either a joint academic appointment in the Department of Physics and Astronomy (www.pa.msu.edu) and the National Superconducting Cyclotron Laboratory (NSCL, www.nscl.msu.edu) or a faculty position within the NSCL.

For either position, applicants with strong interests in contributing to the design of a future Rare Isotope Accelerator (RIA) and other accelerator-based projects are preferred. The successful candidate will be expected to provide a significant increase in the scope and depth of the accelerator physics program and to play a leadership role in developing future facility upgrade options. The Department of Physics and Astronomy maintains a Ph.D. program in accelerator physics and in either position, a successful candidate will have the opportunity to participate in the mentoring of graduate students and in the graduate accelerator physics curriculum. (In a joint academic appointment, a successful candidate will also be expected to actively participate in the academic programs of the Department of Physics and Astronomy.)

The NSCL has the tradition of close interaction between groups providing an ideal mix of a cutting-edge technical infrastructure and an intellectually stimulating open academic environment. The Laboratory is currently completing a major facility upgrade that will increase the intensity of rare isotope beams by about three orders of magnitude and make it the premier rare isotope beam facility in the U.S. for the next decade. The accelerator physics group is comprised of 3 tenured faculty and 7 professional scientific staff in the NSCL. Accelerator physics R&D has strong infrastructure support from experienced design and manufacturing groups. A new program of R&D in superconducting rf technology has been initiated with the requisite facilities now under construction.

Depending upon the qualifications of the successful applicant, the position can be filled at the assistant, associate, or full professor level. Applicants please send a resume, including a list of publications, and the names and addresses of at least three references to

Prof. Raymond Brock, Chairman,
Department of Physics and Astronomy,
Michigan State University, East Lansing,
MI 48824-1116, or to Professor Konrad
Gelbke, Director, National
Superconducting Cyclotron Laboratory,
Michigan State University, East Lansing,
MI 48824-13421.



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BARCLAYS

Mechanical Engineering Section Head

National Synchrotron Light Source (NSLS)

Brookhaven National Laboratory's National Synchrotron Light Source Department has an opening for a Mechanical Engineering – Section Head.

Position will report directly to the Chairman of the National Synchrotron Light Source (NSLS) Department, and be a member of the NSLS Management Group. Will be responsible for the management of a 35-person group consisting of mechanical engineers, designers and technicians. The Mechanical Section works with scientists to create from concept through installation, new mechanical and electromechanical devices for electron accelerators, storage rings and experimental beamlines. These designs involve disciplines such as UHV, precision optics, LASERS, high precision mechanical measurement and control, and high electromagnetic fields. Analytical design techniques, such as FEA and thermal analysis are routinely used. Responsibilities will also include maintenance of the research machines and their utility systems. The Section Head will exercise management responsibilities over multiple projects including planning, interpreting and coordinating assigned work; providing technical direction and guidance to staff; evaluating and assessing project results. Candidates should have a MS or PhD in Mechanical Engineering or allied discipline and a minimum of 15 years experience. Should possess a high degree of leadership abilities, communication skills, and knowledge of ESH&Q. Experience in scientific research/user facilities is highly desirable.

Brookhaven offers a stimulating work environment and a comprehensive benefits package. For consideration, please forward your resume, referring to Position # NS 8629, to: Nancy L. Sobrito, Brookhaven National Laboratory, Bldg. 185-HR, P.O. Box 5000, Upton, NY 11973; or fax: 631-344-2871; e-mail: Sobrito@bnl.gov. We are an equal opportunity employer.

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Assistant/associate professor (ud/uhd) F/M in Experimental Physics at the Nuclear Physics Accelerator Institute (KVI)

We offer

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- The availability of advanced research facilities such as the superconducting cyclotron AGOR, a wide range of large detection equipment and sources for highly charged ions and polarised protons and deuterons.
- Participation in a new research line regarding radioactive decay of trapped atoms.
- High-quality technical support.
- Appointment and salary with good terms of employment will be on level of either assistant or associate professor depending on experience.

We are looking for

An enthusiastic scientist of international stature, preferably with expert knowledge in application of trapped and cooled atoms or ions for studies of fundamental physics, in particular in the weak interaction.

Information

More detailed information can be obtained from the Chairman of the selection committee, Prof. dr. M.N. Harakeh, director KVI, phone (+31)-50-3633554, email: M.N.Harakeh@KVI.NL (see also: <http://www.kvi.nl/trijnp>)

Those who would like to draw attention to qualified candidates are requested to contact the chairman of the selection committee, Prof. dr. M.N. Harakeh.

Application

Please send your application addressed to Prof. dr. M.N. Harakeh, together with three letters of reference to the following address before November 1 to **Mrs. A.M. van der Woude, Personnel Officer, KVI, Zernikelaan 25, 9747 AA Groningen, The Netherlands.**



PHYSICIST STAFF SCIENTIST IN SUPERNOVA COSMOLOGY PROGRAM LAWRENCE BERKELEY NATIONAL LABORATORY

The Lawrence Berkeley National Laboratory invites applications for the position of Physicist Staff Scientist in the Supernova Cosmology Program. This will be a term appointment or, for very well-qualified candidates, a career appointment (Job# Ph012546).

The Supernova Cosmology Research Group is measuring the cosmological parameters using both low- and high-redshift supernovae found in systematic searches at large optical telescopes. It is also involved in the preparation of a satellite-based program of supernova studies known as the SuperNova/Acceleration Probe (SNAP) that should, provide opportunity for a wide range of investigations on cosmological parameters and properties. For more details, visit <http://supernova.lbl.gov> and <http://snap.lbl.gov>. The appointee will be expected to lead the low-redshift supernovae search, carrying it through from the instrumentation design and building phase to data collection/analysis and publication. He/she will also help lead the ongoing high-redshift supernovae project and will help to develop the science specifications for SNAP. The candidate should have at least two years experience in astrophysical or astronomical observation and data analysis from such observation. Experience with astrophysical instrumentation is desirable. PhD or equivalent experience is required.

Applicants should send a resume, publications list, and the names of three references to Lawrence Berkeley National Laboratory, MS 50-4037, 1 Cyclotron Road, Berkeley CA 94720 or email to: gensciemployment@lbl.gov, referencing job number Ph012546. Berkeley Lab is an AA/EEO employer.



UPPSALA UNIVERSITET

The Svedberg Laboratory

is a Swedish national research facility with the responsibility to provide resources for accelerator-based research. To serve this purpose the laboratory operates two accelerators, the Gustaf Werner cyclotron and the CELSIUS storage ring. These are controlled through a distributed control system, which consists of UNIX workstations, VME-computers running real-time operating system, PLC-units and micro-controllers. The use of the facility ranges from fundamental sub-atomic physics to applications in medicine and technology. We are now recruiting

a senior research engineer

who will participate in the further development, operation and maintenance of the accelerator control system. Applicants should have a general background as physicists or engineers and have excellent knowledge of C-programming as well as low-level i/o and system-programming. Experience in computer-communication programming is also required. Knowledge of C++, UNIX-administration and relational databases as well as of analog and digital hardware are additional merits.

Since we work with the accelerators together as a group, and have many research groups as users, very good co-operative skills are required.

Information about the laboratory can be found at <http://www.tsl.uu.se>.

Further information about the laboratory and the position can be given by Dag Reistad, phone +46-18-471 3177, fax 3833, email Dag.Reistad@tsl.uu.se.

The application must reach the Registrar, Uppsala University, Box 256, SE-751 05 Uppsala, Sweden (fax no. +46-18-471 2000) not later than 20 November, 2000. Please mark your application with: UFV-PA 2000/4203.



UNIVERSITY COLLEGE LONDON

Department of Physics and Astronomy

Research Fellow in Experimental High Energy Particle Physics (for ATLAS at the LHC)

Applications are invited for the above position, to commence as soon as possible after 1st October 2000.

This position is to work primarily in the area of offline software and physics studies for the ATLAS project at the LHC. We are currently working on the design and implementation of OO physics analysis and reconstruction tools within the context of the new OO framework (Athena/Gaudi), as well as studies of W boson scattering as a probe of Higgs production.

We are looking for a post-doctoral Physicist to join this team. Ideally the candidate will have some OO training and experience, but the most important quality will be the willingness to adopt and apply OO philosophy to physics exploitation at the LHC.

Starting salary will be in the range: UKP £16,775 to £25,213 + £2,134 London Allowance. Informal enquiries can be made to Peter Clarke [clarke@hep.ucl.ac.uk] or Peter Sherwood [peter.sherwood@cern.ch].

Applications, accompanied by a full CV, including a statement of research interests; a publications list, and the names and email addresses of three referees, should be sent to: clarke@hep.ucl.ac.uk

Closing date: **Saturday, 28th October 2000** (although applications after this date may be considered).

[Note to comply with the Data Protection Act: Applications will be processed using a computer data base. Applicants must give their consent to this procedure in their email submission.]

Working toward Equal Opportunity

SCIENTIST

The Main Injector Oscillation Search (MINOS) Department in the Fermilab Particle Physics Division has an opening for a scientist to take a leadership role in construction and physics analysis of the experiment. Strong participation in the detector or beam line construction will provide the successful candidate with an opportunity to optimize the experimental conditions and will provide the understanding of hardware systematics essential to the analysis. This scientist will develop tools necessary to properly analyze neutrino interactions in the MINOS detectors. MINOS is expected to begin data taking in late 2003. The position is for a tenure track Associate Scientist or a tenured Scientist I, depending on qualifications and experience.

A Ph.D. in experimental particle physics. Experience in analyzing complex data sets. Demonstrated ability to lead in the construction or analysis of an HEP experiment. Experience in neutrino physics is not required but is a plus. For consideration as a Scientist I, a candidate should have previous experience at the Associate Scientist (or Assistant Professor) level and must have demonstrated outstanding ability to lead construction and/or analysis efforts.

Applications should be received by November 1, 2000. Applications including a curriculum vitae, a statement of interest, and a list of three references should be sent to:



Fermilab

MINOS Scientist Appointment Search Committee

Attn: Dr. Aesook Byon-Wagner, MS220

Fermilab, P.O.Box 500

Batavia, IL 60510.

E-mail: byon@fnal.gov

EOE



Laboratori Nazionali di Frascati dell'INFN
European Community - Access to Research
Infrastructures action of the Improving Potential Programme

2nd Call for Proposals

The Laboratori Nazionali di Frascati (LNF) of Istituto Nazionale di Fisica Nucleare (INFN), Italy, have been recognized by the European Union as a Major Research Infrastructure, for the period 1 March 2000 - 28 February 2003 (Contract No. HPRI-CT-1999-00088). This Contract offers the opportunity for European research groups, performing or planning a research activity at LNF, to APPLY FOR E. U. FUNDED ACCESS TO THE LNF to cover subsistence and travel expenses.

The only eligible research teams (made of one or more researchers) are those that conduct their research activity in the E.U. Member States, other than Italy, or in the Associated States.

Proposals must be submitted in writing using the Application Forms that can be downloaded from our website. They must describe the research project that the group wishes to carry out at the LNF, including the number of researchers involved, the duration of the project and the research facility of interest. Submitted proposals will be evaluated on the basis of scientific merit and interest for the European Community by a Users Selection Panel of international experts. The results will be communicated to the Group Leaders. Applications must be sent by November 14th, 2000, to:

LNF Director, TARI
INFN, Laboratori Nazionali di Frascati
Via E. Fermi, 40
I-00044, FRASCATI
Fax: ++39-06-9403-2582

More information can be obtained visiting our website at <http://www.lnf.infn.it/cee/>, or from the TARI secretariat, e-mail: tari@lnf.infn.it, fax: ++39-06-9403-2582.



**Carl Zeiss
Lithos GmbH**

Carl Zeiss Lithos is a recently founded startup of **Carl Zeiss's semiconductor technology**, specializing in the development, prototyping and volume manufacturing of electron optical systems for *Electron Projection Lithography (EPL)* - one of the most promising candidates for *Next Generation Lithography (NGL)* to be deployed in the fabrication of next decade's semiconductor chips. We are offering positions for

Electron Optics Designers

who will work on developing new designs of electron optical column modules for our *Electron Projection Lithography (EPL)* systems. Applicants must possess a Ph.D. in a relevant discipline and have significant know-how and experience in designing charged-particle optical devices such as electron imaging systems or beam forming systems for accelerators. Successful candidates will be highly motivated, with excellent knowledge in theoretical and experimental electron optics, including aberration theory and numerical techniques for field calculations.

Carl Zeiss Lithos offers a position with excellent prospects and the opportunity to work at the front line of semiconductor technology within a multidisciplinary environment of an international research consortium.

Applications should be submitted to: Carl Zeiss Lithos GmbH, Ulrich Thalhofer, Halbleitertechnik, Servicebereich Personalwesen, D-73446 Oberkochen, phone (+49) (0)7364 / 20-3573, thalhofer@zeiss.de For further information please contact: Dr. Dirk Stenkamp, stenkamp@zeiss.de, fax: +49 (7364) 20-3364



Darmstadt

the National Laboratory for Heavy-Ion Research, a member institute of the Helmholtz-Society of German Research Centers, offers

Postdoctoral Positions in Accelerator Physics Ref. 3000-00.39

Pos. 1: Development of the Unilac

For the operation with high intensity beams theoretical and experimental investigations are to be performed at the heavy ion linear accelerator/synchrotron injector Unilac. Experience on the fields of ion optics, particle dynamics and with the relevant computer codes would be appreciated.

Pos. 2: Ion source development

For the Unilac three injectors are used with different ion source types for high charge state ions and high current ion beams respectively (ECR-, MUCCIS- MEVVA-ion sources). The task is to further develop these ion sources for different elements, higher beam intensities and improved long term performance. Experience on the fields of ion sources or plasma physics are expected.

Pos. 3/4: Research and development for pulsed superconducting magnets for a synchrotron

GSI investigates the possibilities to increase beam intensities and energies by an additional larger synchrotron with fast ramped superconducting magnets. For the development, construction and investigation of model- and prototype-magnets two postdoctoral positions are open.

Experience on at least one of the following fields is desired: superconductivity, low temperature physics, cryo-technology or magnet design.

Pos. 5: Studies for and design of UHV-systems

Acceleration of intense ion beams with low charge states in a synchrotron requires extremely low residual gas pressures and extremely clean surfaces in order to avoid charge exchange losses and instabilities. For a new synchrotron residual gas pressures in the range of 10-12 mbar are necessary for routine operation. Studies on test sections and investigations with prototypes for synchrotron components have to be performed as well as conceptual and design work for the complete synchrotron vacuum system. Experience on the field of UHV-technology or surface physics is required.

Pos. 6: Developments for fast stochastic ion cooling

For the optimum exploitation of fragment ion or antiproton beams a collector-/storage ring facility is considered. The task of the collector ring is the fast pre-cooling of "hot" secondary beams. For this purpose broadband rf-cooling devices shall be developed.

GSI especially encourages women to apply. Handicapped applicants will be given preference in case of equal qualification. Applicants should not be older than 32 years.

The positions have a term of three years with a possible two-year extension and are available immediately. Qualified candidates have perspectives for permanent positions.

Applicants are requested to send a list of publications, curriculum vitae, and the names of three references not later than October 27, 2000, (quoting the appropriate reference and position) to:

GESELLSCHAFT FÜR SCHWERIONENFORSCHUNG MBH
PERSONALABTEILUNG
POSTFACH 11 05 52
D-64220 DARMSTADT

SENIOR FACULTY POSITION IN EXPERIMENTAL PARTICLE PHYSICS

The Department of Physics at the University of Alberta invites applications for a new senior position in experimental particle physics with starting date on or after July 1, 2001. The successful candidate will be appointed with tenure at either the associate or full professor rank depending on qualifications and experience. We are interested in candidates who have an excellent record of leadership and achievement in research and who will complement our existing program. These qualities plus ability and interest in teaching at graduate and undergraduate levels will constitute the important selection criteria.

The current program of experimental research includes:

Collider Physics: The OPAL and ATLAS experiments at CERN.

Fixed Target Experiments: The HERMES experiment at DESY; Rare Kaon Decays (exp. 787 AND E949 at Brookhaven); Tests of Weak Interaction in Muon Decay (exp. 614 at TRIUMF); ISAC Radioactive isotope beam Physics at TRIUMF and Charge Symmetry Breaking (exp. 704 at TRIUMF).

Astroparticle Physics: Alberta Large area Time correlation Array (ALTA) and the STACEE gamma ray experiment.

Potential candidates may find additional information about the research program at csr.phys.ualberta.ca.

Applicants should send a curriculum vitae and names of at least three referees who are willing to provide confidential assessments by January 1, 2001 to:

Experimental Particle Physics Search and Selection Committee

Dr. J. Samson, Chair

University of Alberta

412 Avadh Bhatia Physics Laboratory

Edmonton, Alberta, T6G 2J1, Canada

Fax: (780) 492-0714

Email: dept@phys.ualberta.ca

The records arising from this competition will be managed in accordance with provisions of the Alberta Freedom of Information and Protection of Privacy Act (FOIPPA).

The University of Alberta hires on the basis of merit. We are committed to the principle of equity of employment. We welcome diversity and encourage applications from all qualified women and men, including persons with disabilities, members of visible minorities, and Aboriginal persons.

RESEARCH POSITIONS IN EXPERIMENTAL HIGH ENERGY PHYSICS

NORTHERN ILLINOIS UNIVERSITY

The Department of Physics at Northern Illinois University has openings for one or more staff scientists or research associates in experimental high energy physics. The primary focus of these positions will be accelerator R&D as part of the Illinois Consortium for Accelerator Research. Currently we are studying muon-beam cooling, a key new technology for a muon collider or neutrino factory, and anticipate expanding our effort into instrumentation R&D. Candidates are required to have a Ph.D. in physics or a related field, or a degree in engineering with significant electronics experience in particle physics applications. The NIU group is also involved in the D0 experiment at the Fermilab Collider, which is undergoing a major upgrade prior to data-taking in 2001. These positions will allow limited participation in D0. Applications, including curriculum vitae and the names of three references, should be sent to Professor David Hedin, Department of Physics, Northern Illinois University, DeKalb, IL 60115 (hedin@niu.edu).

Deadline: Preference will be given to complete applications received by November 1, 2000 and will be continued until the positions are filled.

Northern Illinois University is an equal opportunity/affirmative action employer.

Wilson — Fellowship —



Robert R. Wilson Fellows Program – The Wilson Fellowship program at Fermilab – supports particle physicists early in their careers by providing unique opportunities for self-directed research in experimental particle physics. The fellowships are awarded on a competitive basis to Ph.D. physicists of exceptional talent as evidenced by their contributions to the field in their postdoctoral work. Fellows will work at Fermilab in area of experimental particle physics of their choice. Wilson Fellowships are tenure track positions with an initial term appointment of three years.

Each candidate should submit a research statement describing a proposed program and a curriculum vitae; and should arrange to have four letters of reference sent to the address below. Application materials and letters of reference should be received by November 30, 2000.

Materials, letters and requests for information should be sent to:



Patricia L. McBride

Chairman, Wilson Fellows Committee

Fermi National Accelerator Laboratory, MS 234

P.O. Box 500

Batavia, IL 60510-0500

email: mcbride@fnal.gov

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Thomas Jefferson National Accelerator Facility

JEFFERSON LAB POST DOCTORAL POSITION POSITION NO: PT2126

Thomas Jefferson National Accelerator Facility is a DOE-sponsored laboratory operated by the Southeastern Universities Research Association. Jefferson Lab's primary mission is to study strongly interacting matter with multi-GeV electromagnetic probes. The experimental program includes both high energy nuclear physics and low energy particle physics. The laboratory routinely operates up to 5.5 GeV beam energy.

Jefferson Lab invites applications for a post doctoral research position in the Hall A group. The base Hall A equipment consists of two identical high-resolution magnetic spectrometers, high power 1,2H and 3,4He cryogenic targets, and an optically pumped polarized 3He target. Operating since early 1997, the Hall A publication and Ph.D. production streams are well established. The experimental program for the next few years includes a further measurement of the proton electric form factor, inclusive measurements of the neutron spin structure functions and a coincidence measurement of proton knockout from 4He. The expected installation of a pair of septum magnets will permit a study of hypernuclear spectroscopy and three parity-violation experiments. The successful candidate will play a role in the preparation, data taking, and analysis for these experiments, and assist in the design of future experiments. Leadership roles in already approved and scheduled experiments are possible by mutual agreement with experiment spokespersons.

A Ph.D. in Experimental Nuclear or Particle Physics or High-Energy Astrophysics is required. Experience analyzing data from intermediate/high-energy experiments is essential, and a background in lepton-nucleus physics would be a plus. The appointment will initially be made for one year and is renewable. Applicants should send a curriculum vitae, copies of any recent (un)published work, and arrange to have letters from three references sent to: Employment Manager, Mail Stop 28A, TJNAF, 12000 Jefferson Avenue, Newport News, VA 23606. Jefferson Lab is an Affirmative Action/Equal Opportunity Employer.



Universität Heidelberg Physikalisches Institut

Postdoctoral Position

Applications are invited for a position as postdoctoral research associate in the relativistic heavy ion group.

Candidates should have a doctoral degree in experimental nuclear or particle physics. Experience with detectors would be very welcome but is not a condition. The appointment is associated with data analysis of the NA45/CERES experiment and preparation for the LHC experiment ALICE. There the Heidelberg group is involved in the design and construction of the Time Projection Chamber and the Transition Radiation Detector as well as in general physics aspects of the experiment with specific emphasis on the physics of electron pairs.

More information can be found at

<http://ceres6.physi.uni-heidelberg.de/physi/ceres.html>



NETHERLANDS' FOUNDATION FOR FUNDAMENTAL RESEARCH ON MATTER (FOM) DIRECTOR OF THE NATIONAL INSTITUTE - NIKHEF

NIKHEF is a joint venture of FOM with 4 Dutch universities. It is an institute for subatomic physics and as such co-ordinates all experimental high energy nuclear and particle physics in the Netherlands. The director of the FOM institute NIKHEF is also director of the NIKHEF collaboration between FOM and these 4 universities. This position will become vacant on 1 July 2001.

FOM is seeking applications/nominations for this important post.

The FOM institute is one of the three scientific institutes of FOM and as such is the foremost Dutch institute for subatomic physics. The director of the institute plays a critical dual role; in guiding and directing the scientific, technical and administrative functions of the laboratory, and also in co-ordinating the national subatomic physics programme and the Dutch input in the international programmes in this area. As such this appointment is viewed as a challenging and crucial in the Netherlands.

The director's main task will be to develop and guide the scientific policy for the high energy, nuclear and particle physics programme in the Netherlands. The director will also have considerable responsibility for obtaining funding for the institute.

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 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, (email geerts@fom.nl) or the chairman of the selectioncommittee Prof. B.de Wit, (email: 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 3 November 2000.

RESEARCH FACILITY ACCESS

EUROPEAN RESEARCH INFRASTRUCTURE BERGEN COMPUTATIONAL PHYSICS LABORATORY

Bergen Computational Physics Laboratory (BCPL) is a Research Infrastructure at the University of Bergen, Norway, with a scientific staff working on modeling of subatomic, atomic and molecular reactions, using supercomputing facilities, including a 52 GigaFlop, 128 processor, CRAY Origin 2000 as its present top facility.

BCPL offers access to researchers or research teams from the EU and its Associated States in order to solve computational physics problems in the above mentioned fields. Short stays (approx. 2-4 weeks) for established researchers are supported by the EC in the framework of the Access to Research Infrastructure activity of the Improving Human Potential program.

Contact: Prof. L.P. Csemai, BCPL, University of Bergen, Allg. 55, 5007 Bergen, Norway
e-mail: bcpl@fi.uib.no, URL: <http://www.fi.uib.no/~bcpl/>

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 observational or theoretical cosmology. This position has a targeted start date of July 1, 2001, 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 third of four new positions created for our cosmology program. The current cosmology group consists of Professors Andreas Albrecht, Lloyd Knox, and Robert Becker. The cosmology program benefits from full access to Lick and Keck observatories and from overlapping interests with our strong departmental programs in condensed matter, nuclear physics, quantum gravity, and especially with our particle physics program. Outstanding persons in all areas of cosmology will be considered.

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 filled; but to assure full consideration, applications should be received by November 10, 2000. To initiate the application 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.

Physics Faculty and Postdoctoral Positions

The C. N. Yang Institute for Theoretical Physics at the University at Stony Brook seeks candidates for postdoctoral positions and continues to seek candidates for tenure-track faculty and tenured faculty with anticipated appointment date 1 September 2001. Research fields at the institute include, but are not limited to, gauge field theory, elementary particle theory, statistical mechanics, supersymmetry and superstrings.

For application instructions please see: (<http://www.physics.sunysb.edu/ltp/jobs>). If your computer manager cannot provide web access, there is a slower alternative—please email for instructions by auto-reply: (jobforms@insti.physics.sunysb.edu). If you cannot connect electronically, please write to: CNYITP Search, University at Stony Brook, Stony Brook, NY 11794-3840.

Review of applications will resume this fall and continue until the positions are filled.

Applications from women, people of color, disabled persons, and veterans are especially welcome. AA/EOE

**STONY
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TENURE TRACK POSITION IN THEORETICAL PHYSICS

Department of Physics and Astronomy
University of Victoria

The Department of Physics and Astronomy at the University of Victoria invites applications for a tenure-track position at the rank of Assistant Professor in the area of theoretical particle physics or theoretical particle astrophysics. Applicants are expected to possess an exceptionally strong and internationally recognized research record and outstanding promise for future research accomplishments. The successful candidate will have a commitment to graduate and undergraduate education.

The Department of Physics and Astronomy consists of approximately 17 faculty members working primarily in the research areas of particle physics, astronomy/astrophysics and ocean physics. The department has a successful and productive association with the near-by TRIUMF laboratory. The particle physics group has an ongoing participation in the OPAL and ATLAS experiments at CERN and the BaBar experiment at SLAC. The astronomy group benefits from close relations with the nearby Herzberg Institute of Astrophysics and its staff, telescopes and instrumentation, and also has access to facilities such as the Canada-France-Hawaii and the James Clerk Maxwell telescopes and the Gemini telescopes. See <http://www.phys.uvic.ca> for further information.

The University of Victoria is an equity employer and encourages applications from women, persons with disabilities, visible minorities, and aboriginal peoples. In accordance with Canadian immigration requirements, this advertisement is directed to Canadian Citizens and permanent residents. Others are encouraged to apply, but are not eligible for appointment unless a search among qualified Canadian applicants proves unsuccessful.

Applications, including a curriculum vitae, publication list, statement of present and future research interests, and the names and addresses of at least three referees, should be sent to: **Charles Picciotto, Chair, Department of Physics and Astronomy, University of Victoria, P.O. Box 3055 Stn Csc, Victoria, BC V8W 3P6, Canada**

Applications will be accepted until 31 December 2000, with an intended starting date of 1 July 2001.



POSTDOCTORAL POSITION FOR A PHYSICIST INTERESTED IN BRAIN RESEARCH

The PET (Positron Emission Tomography) group at the Max-Planck-Institut für Neurologische Forschung, Cologne has an opening for a recent PhD in physics to work with the new High Resolution Research Tomograph (see CERN COURIER May 2000 page 23/24). The new tomograph is a newly developed PET system (Siemens/CTI), which is currently optimized for clinical application.

The applicant should preferentially have a background in nuclear or particle physics with programming experience.

For further information contact:

Prof. Klaus Wienhard
email: klaus.wienhard@pet.mpin-koeln.mpg.de
phone: +49-(0)221-478-6056

The application of qualified women is welcomed.

Handicapped applicants will be given preference to other applicants with the same qualifications. Candidates are invited to send their application including a curriculum vitae and two letters of recommendation to

PET group, Max-Planck-Institut fuer neurologische, Forschung, Gleuelerstrasse 50, D-50931 Koeln, Germany

MIT

POSTDOCTORAL ASSOCIATE/ STAFF PHYSICIST

The MIT-Bates Linear Accelerator Center invites applicants for an immediate opening for a postdoctoral/staff physicist position. The position is in the Physics Division, which consists of two main groups: the Polarized Injector Group and the Research Support Group (RSG). The successful candidate's primary responsibilities will include operation of the polarized source and research and development to optimize the polarized source for delivering high quality polarized beams to the Bates South Hall Ring (SHR). The SHR is a 1 GeV storage and pulse stretcher electron ring for medium energy nuclear physics. Tasks include photocathode UHV work, operation of high power gas and solid state lasers, beam optics simulation, and Compton beam polarimetry in the SHR. A newly constructed 60 keV test beam setup with a Mott polarimeter is the benchmark for all photocathode developments at Bates. The group must deliver high quality polarized beam to the third phase of the SAMPLE experiment. Will also take a major role in the activities of the Laboratory on beam polarization and manipulation in the ring using a Siberian Snake, spin flipper and the polarized source.

As a member of the Physics Division, the candidate will also assist the RSG group in the construction and commissioning of the BLAST detector. Upon completion, BLAST will be the centerpiece of the Laboratory's physics program, providing a unique world class capability to pursue an internal target physics program using stored polarized electron beams in the SHR.

Requirements: a Ph.D. in experimental nuclear physics or applied physics with experience in any or all of the above areas. Experience in and knowledge of accelerator based photoemission desirable. Bates is located in Middleton, Massachusetts.

Please send a current C.V. and the names of three references to: Mr. Richard Adams, Laboratory for Nuclear Science, MIT, Bldg. 26-516, 77 Massachusetts Ave., Cambridge, Massachusetts, 02139-4307.



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PHYSICIST STAFF SCIENTIST IN SNAP PROGRAM LAWRENCE BERKELEY NATIONAL LABORATORY

The Lawrence Berkeley National Laboratory invites applications for the position of Physicist Staff Scientist in the Supernova/Acceleration Probe (SNAP) Program. This will be a term appointment or, for very well-qualified candidates, a career appointment (Job# Ph012544).

The SNAP Research Group is developing a satellite experiment, with a two-meter optical telescope, to study high-redshift supernovae and thereby measure cosmological parameters. The telescope will utilize a billion-pixel optical imager, a near-IR imager, and a three-arm spectrograph to discover and measure these supernovae. For more details visit <http://snap.lbl.gov>. The appointee will be expected to play a leadership role in the development and implementation of technologies that are key to the SNAP instrumentation. The candidate should have several years experience in instrumentation systems, data-acquisition systems, and calibration. Experience with silicon vertex detectors, or optical and near-IR imagers is desirable. PhD or equivalent experience is required.

Applicants should send a resume, publications list, and the names of three references to Lawrence Berkeley National Laboratory, MS 50-4037, 1 Cyclotron Road, Berkeley CA 94720 or email to: gensciemployment@lbl.gov, referencing job number Ph012544. Berkeley Lab is an AA/EEO employer.



Texas Tech University

RESEARCH ASSOCIATE POSITION EXPERIMENTAL PARTICLE PHYSICS

The Department of Physics at Texas Tech University (TTU) invites applications for a postdoctoral Research Associate position in experimental particle physics. We are looking for an outstanding physicist who is interested to work with the CDF experiment at Fermilab. The person filling this position will be located at Fermilab and will contribute to the ongoing program of the TTU particle physics group. The group is currently involved in the front-end electronics project for the calorimeters, in online calibration monitoring, in the design and maintenance of the calibration database and in the silicon vertex detector upgrade for CDF. The physics analysis activities of our group are currently focused on B-physics and Electroweak-physics. The TTU group is also involved in the CMS experiment at CERN as well as in generic detector R&D.

This is normally a two-year appointment with the possibility of an extension. Applicants for the position should have a Ph.D. in experimental particle physics. **Please send an application including curriculum vitae and publication list and arrange for three letters of recommendation to be sent to: Prof. Vaia Papadimitriou, Texas Tech University, Physics Department, Box 41051, Lubbock, TX 79409-1051 (VAIA@FNAL.GOV).** The vitae and recommendations can be sent either by normal or electronic mail. Inquiries about the position can be sent to VAIA@FNAL.GOV. Applications will be accepted until October 31, 2000 or until the position is filled.

Texas Tech University is an equal opportunity/affirmative action employer.



UNIVERSITÄT DES SAARLANDES

Available positions at the Physics Department, Saarland University

Several positions for PhD-students and one post doc position are available in the scanning probe microscopy and nanostructure research group. The field of research will be in the area of cooperative phenomena in reduced dimensions and of micro/nanoscale structuring of surfaces by means of modern lithographic techniques. A number of scanning probe microscopes, low temperature equipment, thin film deposition techniques, electron beam lithography equipment and a clean room is available for the research in the group's laboratories. The group aims at the completion of doctoral thesis's within less than three years.

The group features a multi-national composition. Fluency in German is no prerequisite for a successful collaboration within the group.

Further information on the group is available at:
<http://www.uni-saarland.de/fak7/hartmann/>

The salary will be in accordance to the regulations of the Saarland University.

Saarland University plans to increase the number of women in such positions. Qualified women are therefore especially encouraged to apply.

Disabled persons will be hired with some preference.

Please submit applications to:

Saarland University, Prof. Dr. U. Hartmann or Dr. U. Memmert, Experimental Physics, Geb. 22, Postfach 151150, 66041 Saarbrücken, Germany.



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For further information please contact Dr. Egger,
phone ++41 56 310 3671, e-mail: johny.egger@psi.ch

Please send your application to: PAUL SCHERRER INSTITUT, Human
Ressources, ref.code 1413-03, CH-5232 Villigen PSI, Switzerland

Further job opportunities: www.psi.ch

Staff Scientist Position

at the
LIGO Laboratory,
California Institute of Technology (Caltech).

The Laser Interferometer Gravitational-Wave Observatory (LIGO) Laboratory is seeking to fill a three-year term position for staff scientist at its Livingston, Louisiana Observatory. The position may be converted at a later date to a long-term appointment subject to available funding. The successful candidate will become a member of the observatory staff with primary responsibility to participate locally in the LIGO Laboratory Data and Computing Group activities. Primary responsibilities will include: site support for LIGO Data Analysis System hardware and software; and participation in the scientific data analysis for astrophysical signatures from gravitational waves associated with compact relativistic objects.

Skills we are seeking include: Linux/Solaris administration background; MPI based parallel computational background; training in astronomy, astrophysics or physics; programming experience in C and C++ and/or tcl / tk; knowledge of computer hardware systems, ability to repair computer equipment, install computer equipment, maintain computer equipment. The ideal candidate would have a deep-seated commitment to successfully implement and use the LIGO computational resources for astrophysical research in near real time at the site. He or she should have a can-do attitude that includes openness to learning new skills as they are needed, and the ability to work in a collegial manner with others both locally and remotely.

Letters of interest should be sent to Dr. Albert Lazzarini, California Institute of Technology, LIGO 18-34, Pasadena, Ca 91125, and must include a resume with a minimum of three references listed. Further information may be obtained from Dr. Lazzarini at lazz@ligo.caltech.edu.

*Caltech is an Affirmative Action/Equal Opportunity Employers.
Women, Minorities, Veterans, and Disabled Persons
are encouraged to apply.*

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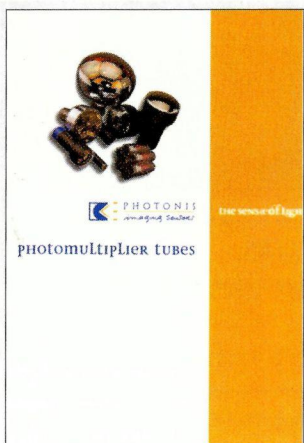


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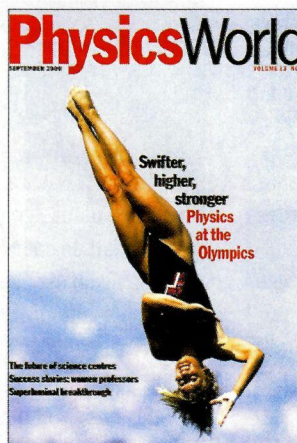


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