

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 (0)117 930 1196. Fax: +44 (0)117 930 1178. E-mail: sales@cerncourier.com.
Tarifs par centimetre/colonne: normal 94\$/75€/52£, universitaire 88\$/71€/49£

W. M. KECK OBSERVATORY

The University of California and the California Institute of Technology formed the California Association for Research in Astronomy (CARA) to construct and operate the W.M. Keck Observatory. CARA provides oversight of the observatory operations, and its related equipment, instrumentation, support facilities and infrastructure through its Board of Directors.

DIRECTOR

The CARA Board seeks a Director for the Observatory to succeed Fred Chaffee, who is retiring. The Director reports to the CARA Board and is responsible for managing observatory operations within budget, to maximize its readiness and effectiveness for scientific research. The Director is responsible for recruiting and maintaining high quality technical and administrative staff, developing an annual budget for review and approval, and developing with the Science Steering Committee the short-range and long-range development plans for the observatory. The Director oversees telescope scheduling for science and engineering and acts as the primary interface with the astronomical user community. The Director maintains effective liaison with the CARA Board, the Science Steering Committee, the University of Hawaii, the local Hawaiian community and other external organizations, in each case ensuring that the Observatory is aware and responsive to their respective needs and desires. The Director is also responsible for maintaining a public outreach office and pursuing and managing public and private fund-raising activities, with guidance from the Board.

REQUIREMENTS: Ph.D. in astronomy or related field or equivalent relevant experience. Experience and demonstrated capabilities in managing a scientific research facility and working in a team-oriented environment are essential. The Director must also be skilled in written and oral communications and have the ability to work collaboratively among varied constituencies to achieve consensus.

SALARY RANGE: Dependent on background and experience and to be negotiated.

STARTING DATE: July 1, 2006

GENERAL INFORMATION: The Director will be resident at the W.M. Keck Headquarters in Waimea, Hawaii. The initial appointment term will be from three to five years with the possibility of renewal. Further particulars of the appointment are available on request.

APPLICATIONS: Review of applications will begin on August 1, 2005, and the recruitment will remain open until the position is filled. Applications together with names of three referees should be submitted in confidence to the following address:

Dr Richard S Ellis, Chair, Search Committee, Astronomy 105-24, Caltech, Pasadena CA 91125

Email submission to jlm@astro.caltech.edu is also acceptable.

GSI Darmstadt the National Laboratory for Heavy-Ion Research, a member institute of the Helmholtz-Society of German Research Centers, is seeking an outstanding

Experimental Physicist

Ref. 1200-05.21

for a permanent staff position in experimental nuclear astrophysics.

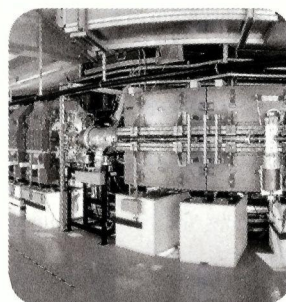
The successful candidate will participate in developing and pursuing the GSI experimental program in nuclear astrophysics using reactions with exotic fragment beams at the present SIS/FRS facility and at the future FAIR facility. While experiments at GSI will be the main focus of the work, scientific contacts with the worldwide nuclear astrophysics community will be encouraged.

Candidates should hold a Ph.D. in experimental nuclear physics and should have a broad astrophysical knowledge as well as a thorough training and several years of research experience in experimental nuclear astrophysics, in particular in the field of nuclear reactions.

Women are especially encouraged to apply for the position. Handicapped applicants will be given preference to other applicants with the same qualification.

Applications containing a curriculum vitae, a list of publications, the names and e-mail addresses of three referees, and the above reference number should be sent by postal mail until **July 31, 2005**, to:

GSI
Darmstadt



Gesellschaft für
Schwerionenforschung mbH
Personalabteilung
Ref. 1200-05.21
Planckstraße 1
D-64291 Darmstadt

Explore

Link

Digest

Browse

Search

Bookmark

cerncourier.com



The Max-Planck-Institut für Physik is one of the world's leading research institutes, focused on particle and astroparticle physics from both experimental and theoretical perspectives. Our research activities in elementary particle physics comprise participation in the H1 and ZEUS experiments at DESY, the ATLAS experiment at CERN and the GERDA experiment at Gran Sasso, as well as R&D for the future International Linear Collider. In astroparticle physics we are participating in the CRESST dark matter search at Gran Sasso, the MAGIC experiment at La Palma Observatory, and the future EUSO project.

We invite applications for several

Postdoctoral positions in Particle and Astroparticle Physics

in order to strengthen our activities in the following experiments.

CRESST is a unique dark matter experiment using scintillating cryogenic detectors operated at about 10mK temperature. The measurement of the recoil energies and the scintillation light leads to an excellent suppression of backgrounds. Phase II of the experiment with 10kg target mass is presently under construction at Gran Sasso underground laboratory in Italy (Reference code: CRESST).

MAGIC is the world's largest ground based Imaging Atmospheric Cherenkov telescope to study the deep universe with high energy gamma rays above 30 GeV. The scientific objectives are not only the study of high energy astronomical objects, e.g. AGNs, GRBs, Pulsars, and SNRs, but also the investigation of fundamental physics, such as the search for Dark Matter and tests for Lorentz invariance. The first telescope has been in scientific operation since summer of 2004 and the second telescope with advanced photosensors is under construction. It will be completed in 2007 (Reference code: MAGIC).

EUSO is an experiment for UHE cosmic-ray observations, looking down onto the earth's atmosphere with a wide angle telescope from the International Space Station. EUSO will achieve a 300-1000 times larger aperture than currently running experiments, and measure with high precision UHE cosmic rays above the GZK energy and UHE neutrinos (Reference code: EUSO).

H1: The MPI group participating in the H1 experiment has developed state-of-the-art electronics for jet recognition at the first level of triggering. A postdoctoral candidate is sought to participate in the commissioning of the system, and to lead in the analysis of the data made possible by this new trigger (Reference code: H1).

ILC: The MPI is seeking to increase its role in the R&D effort for the proposed International Linear Collider (ILC). We are currently developing a silicon pixel detector based on the DEPFET technology, and anticipate taking part also in calorimeter detector developments. A postdoctoral candidate is sought to pursue simulation studies of alternative detector options. Benchmark physics processes will be used to set the requirements and evaluate the applicability of different technologies. The candidate will have the option to simultaneously join an ongoing accelerator research program and participate in data analysis (Reference code: ILC).

GERDA is designed to investigate the nature of the neutrino and its absolute mass-scale by searching for the neutrinoless double-beta decay of ^{76}Ge . The goal of the GERDA experiment is to either establish the Majorana nature of the neutrino or push the relevant exclusion limits to the mass-scale indicated by neutrino oscillations. The experiment uses the novel approach of shielding crystals with a cryogenic liquid. The MPI is responsible for the design and construction of new germanium detectors, the detector suspension and insertion system and the corresponding infrastructure. It is also involved in the software to support simulation and analysis. The successful candidate is expected to contribute in both sectors (Reference code: GERDA).

ATLAS: ATLAS is presently under construction to operate at CERN's Large Hadron Collider starting 2007. The scientific focus of the ATLAS collaboration is on the search for the Higgs boson, precision measurements of top- and b-quark physics, and the search for new physics beyond the Standard Model, e.g. Supersymmetry. The MPI is contributing to the construction of three sub-detectors for ATLAS, among them the Semiconductor Tracker (SCT). We are seeking a person to strengthen our SCT group by contributing to the construction, testing, quality assurance and installation of detector modules, and to preparations of the physics analyses (Reference code: ATLAS-SCT).

The positions are available immediately for an initial period of two years (for ATLAS-SCT: three years), with a possible extension within the rules of the German Hochschulrahmengesetz. Salary and benefits are commensurate with public service organizations (BAT IIa). The Max Planck Society wishes to increase the participation of women in its research activities. Therefore applications by women are particularly welcome. The Max Planck Society is committed to employing more handicapped individuals and especially encourages them to apply.

Applications should contain a letter of introduction, a full curriculum vitae, and a list of publications. The applicant should arrange for three referees to provide letters of recommendation. Send your application by June 30, 2005 to

Max Planck Institut für Physik

(Werner-Heisenberg-Institut)

Dr. Michael Altmann

Föhringer Ring 6

D-80805 München

Germany

or online to sciencejobs@mppmu.mpg.de. Please indicate the reference-code of the position you are applying for. Further information and details on the job profiles may be obtained from

- Prof. Dr. Masahiro Teshima at mteshima@mppmu.mpg.de for CRESST, MAGIC and EUSO
- Prof. Dr. Christian Kiesling at cmk@mppmu.mpg.de for H1
- Dr. Ariane Frey at ariane@mppmu.mpg.de or Prof. Dr. Allen Caldwell at caldwell@mppmu.mpg.de for ILC
- Dr. Iris Abt at isa@mppmu.mpg.de or Prof. Dr. Allen Caldwell at caldwell@mppmu.mpg.de for GERDA
- Dr. Richard Nisius at nisius@mppmu.mpg.de for ATLAS-SCT



Grid Physicist/Programmer (VN2583R)

The Council for the Central Laboratory of the Research Council, CCLRC, is one of Europe's largest multidisciplinary research organisations supporting scientists and engineers world-wide.

The Particle Physics Department at CCLRC has a pivotal role in the computing and software infrastructure for the LHCb experiment at CERN, Geneva. If you are a highly motivated individual with a degree in physics, computing or software engineering, CCLRC has a position to provide software support for deployment of a common GRID based computing infrastructure across the eight UK sites that work on LHCb. The post is located at the Rutherford Appleton Laboratory but the holder can expect to make regular visits to CERN and to collaborating UK Universities to provide co-ordination and technical leadership. A PhD in a relevant field and some experience of large-scale software projects or GRID middleware would be an advantage.

The post will be filled as soon as possible and is available for 30 months from the start date. Extension beyond that period is anticipated but is subject to funding approval.

Salary is in the range £22,605 to £26,911 per annum, dependent on experience. An excellent index linked pension scheme and generous leave allowance are also offered.

For further information about the post, contact Dr. Glenn Patrick (G.N.Patrick@rl.ac.uk) and visit the web site at hepwww.rl.ac.uk/lhcb

Application forms can be obtained from: Operations Group, HR Division, CCLRC, Chilton, Didcot, Oxfordshire, OX11 0QX. Telephone (01235) 445435 (answerphone) or e-mail: recruit@rl.ac.uk quoting reference number VN2583R.

Closing date for applications is 24 June 2005.

Interviews will be held during July 2005.



INVESTOR IN PEOPLE

COUNCIL FOR THE CENTRAL LABORATORY OF THE RESEARCH COUNCILS



the German National Laboratory for Heavy-Ion Research, member institute of the Helmholtz-Association of German Research Centres, invites applications for a physicist (PhD) for the position of

FAIR Project Division Leader

The FAIR accelerator facility (Facility for Antiproton and Ion Research) planned at the Gesellschaft für Schwerionenforschung mbH (GSI) in Darmstadt will provide a technically innovative accelerator facility which is, in many respects, unique worldwide. It will open new horizons for research into the structure of matter and related disciplines.

The FAIR accelerator facility will comprise two superconducting synchrotrons and several storage-cooler rings. It will deliver ion beams and secondary beams of short-lived nuclei of highest intensity as well as antiproton beams. FAIR will be constructed with broadly-based participation of international research institutes.

A new FAIR Project Division will be created at GSI for the construction of the FAIR accelerator. We are looking for an internationally renowned accelerator physicist with several years of project experience to head this division.

The successful applicant is to lead a team of over two hundred scientists, engineers and technicians. He/She will head the Technical Accelerator Board and will be responsible for the FAIR accelerator sub-projects carried out at GSI as well as for the implementation of the entire accelerator facility and the technical integration of the FAIR experiments.

The applicant should possess sound knowledge of and experience in the management of complex large-scale scientific-technical projects as well as relevant leadership experience. He/She must be well experienced in working with international teams of scientists and engineers. Proficiency in the English and German languages is required. Knowledge of further languages is desired.

GSI is an equal opportunity employer and encourages women especially to apply. Persons with disabilities will be given preference over other applicants with comparable qualifications.

The position is initially limited to a period of five years.

Applications should be submitted by postal mail until **July 15, 2005** to:

Chair of the Supervisory Board of the
Gesellschaft für Schwerionenforschung mbH
Dr. Beatrix Vierkorn-Rudolph
Bundesministerium für Bildung und Forschung
Heinemannstr. 2
53175 Bonn / Germany

CERN COURIER

Classified advertising

is the perfect platform to promote a diverse range of events and important announcements, including: •calls for proposals/research papers •summer schools •workshops •courses •equipment sales.

In 2005 *CERN Courier* has introduced a special classified advertising rate to assist in your communication needs. *CERN Courier* offers you access to readers in the world's major physics research sites and the opportunity to run a modest advertisement at a low cost. Many organizers have appreciated how *CERN Courier* has helped to raise the profile of their events and significantly increased the number of delegates.

For further information and consultative advice on classified advertising in *CERN Courier* and the Web options that we offer, please contact

Yasmin Agilah.

Tel:

+44 (0)117 930 1196

E-mail:

yasmin.agilah@iop.org



Senior Scientist in High Energy Gamma-Ray Astrophysics/ High Energy Astroparticle Physics

The Max-Planck-Institut für Physik is one of the world's leading research institutes, focused on particle and astroparticle physics from both an experimental and a theoretical perspective. Our research activities in astroparticle physics comprise participation in the gamma ray telescope MAGIC at La Palma Observatory, the future space mission EUSO, and the CRESST dark matter search at Gran Sasso National Laboratory, Italy.

MAGIC is the world's largest ground-based Cherenkov telescope to study the deep universe with high energy gamma rays above 30 GeV. There are many observational targets, e.g. AGNs, GRBs, Pulsars, and SNRs. Scientific objectives include both the study of astrophysical sources, and the investigation of fundamental physics, such as the search for Dark Matter and tests of the validity of the Lorentz invariance. The first telescope has been operative since October 2003. The second telescope is now under construction and will be completed in 2006.

We are looking for a senior scientist who can contribute to running the experiment, the data analysis, and the construction of the second telescope. Candidates with an experimental background in cosmic-ray physics, gamma-ray physics or neighbouring fields, such as elementary particle physics and astrophysics, are encouraged to apply. He / she is required to have a wider vision and a deep knowledge in astroparticle physics in order to develop concepts for future projects.

Salary and benefits are in accordance with the German public service pay scale (BAT Ib). The position is permanent. The Max Planck Society wishes to increase the participation of women in its research activities. Therefore, applications from women are particularly welcome. Following its commitment to an equal opportunities employment policy, the Max Planck Society especially encourages handicapped persons to submit their applications.

Interested scientists should submit an application letter, a statement of research interests, a CV, and a list of publications by June 30, 2005 and arrange for three letters of support to be sent by the same date to

Max-Planck-Institut für Physik

(Werner-Heisenberg-Institut)

Prof. Dr. Masahiro Teshima

Föhringer Ring 6

D-80805 München

Germany

E-mail: mteshima@mppmu.mpg.de

For further information on the institute's research, visit our homepage at www.mppmu.mpg.de

dapnia

DIRECTION DES SCIENCES DE LA MATIÈRE



DEPARTEMENT D'ASTROPHYSIQUE, DE PHYSIQUE DES PARTICULES,
DE PHYSIQUE NUCLEAIRE ET DE L'INSTRUMENTATION ASSOCIEE

saclay

Ingénieur HF

Le Commissariat à l'Energie Atomique de Saclay recrute au sein du Laboratoire d'Etudes des Structures Accéléatrices et des Radiofréquences, rattaché à la Direction des Sciences de la Matière, un ingénieur hyperfréquence confirmé de niveau Bac+5 avec une expérience supérieure à 5 ans. Le laboratoire étant engagé dans la construction d'un accélérateur de particules dans le cadre d'une collaboration internationale, le candidat retenu aura comme première responsabilité le développement, l'installation et la mise en oeuvre de l'ensemble des systèmes HF, en particulier les sources de puissance. La maîtrise de l'anglais est nécessaire.

Merci d'envoyer CV et lettre de motivation à :

CEA/Saclay

DSM/DAPNIA/SACM/LESAR-Bâtiment 130

91191 Gif sur Yvette cedex - FRANCE



Forschungszentrum Karlsruhe
in der Helmholtz-Gemeinschaft

&

Universität Karlsruhe (TH)

Forschungszentrum Karlsruhe is a national research institution with about 3,600 employees and member of the Hermann von Helmholtz Association of National Research Centers (HGF).

Forschungszentrum Karlsruhe is inviting applications for the position of

Head of the Institute of Technical Physics (ITP) (succession of Prof. Dr. P. Komarek)

The appointment will be made jointly with the Department of Electrical Engineering and Information Technology of Universität Karlsruhe (TH) for the position of

Full Professor (W3) on Technical Applications of High-Temperature Superconductivity

The candidates are supposed to have a high international and scientific reputation in the field of technical superconductivity and to lead a large interdisciplinary institute.

The activities of ITP are centred around high-current applications of superconductivity, cryogenics and vacuum technology. In addition, the Tritium Laboratory Karlsruhe will be integrated into the ITP. R&D is focused on superconducting magnets for nuclear fusion and devices for energy applications, high field magnets (e.g. NMR) and specific tasks in vacuum and Tritium technology. Emphasis will be placed on development of technical superconductors, particularly high-temperature superconductors, and cryogenic processing technologies. The successful candidate is expected to maintain and enhance the numerous worldwide contacts and cooperation with academia and industry.

At Universität Karlsruhe, the position holder will represent the subject of "Technical Applications of High-Temperature Superconductivity" in research and in teaching.

Remuneration will be according to level W3. We expect "Habilitation" or comparable scientific qualification.

In line with our policy of equal opportunities, applications from qualified women are particularly encouraged.

Applications including CV, list of publications and a brief description of the scientific career should be submitted by June 15th, 2005, to

Prof. Dr. Reinhard Maschuw - Vorstand - Forschungszentrum Karlsruhe GmbH, Postfach 36 40, D-76021 Karlsruhe, Germany

Internet: www.fzk.de

cerncourier.com

John Adams Institute at Royal Holloway

Lecturer in Accelerator Science

Department of Physics

The John Adams Institute (JAI) for Accelerator Science was founded by PPARC in 2004 and is a joint initiative between Royal Holloway, University of London and Oxford University. Within the JAI, you will lead a major research initiative in the field of accelerator science and contribute to the departmental teaching programme.

The JAI at RHUL is currently very active in the field of laser-based beam diagnostics for the International Linear Collider, as well as in a programme of advanced accelerator simulation and design. You would be welcome to extend this programme into related areas, or to open up an entirely new field of accelerator research. This is a remarkable opportunity to direct the future direction of the JAI research programme at an early stage in its development. Further details about the post, the Institute and the work of the Royal Holloway Particle Physics Group can be found on our website at <http://www.pp.rhul.ac.uk>

Royal Holloway is one of the larger colleges of the University of London, situated on a pleasant campus about 25km west of central London, close to the town of Windsor and to Heathrow Airport.

Initial salary will be in the range £29,250 (Lecturer Grade A) and £30,123 - £38,017 (Lecturer Grade B) including London Allowance, depending on experience.

Informal enquiries about the posts can be made to g.blair@rhul.ac.uk

Further details and an application form are available from the Personnel Department, Royal Holloway, University of London, Egham, Surrey TW20 0EX; fax: 01784 473527; tel: 01784 414241; website: <http://www.rhul.ac.uk/Personnel/JobVacancies.htm>

Please quote reference KB/004384.

The closing date for the receipt of applications is 1st July 2005. Interviews to be held within the first two weeks of September.

We positively welcome applications from all sections of the community.

(Werner Heisenberg Institute)



MAX-PLANCK-GESELLSCHAFT

Senior Scientist in Experimental Neutrino Physics (GERDA experiment)

The Max-Planck-Institut für Physik is one of the world's leading research institutes, focused on particle and astroparticle physics from both an experimental and a theoretical perspective.

We invite applications for a senior staff position for the GERDA project, a new experiment to be located at the Gran Sasso National Laboratory, Italy.

The GERDA experiment is designed to investigate the nature of the neutrino and its absolute mass-scale by searching for the neutrinoless double-beta decay of ^{76}Ge . The goal is to either establish the Majorana nature of the neutrino or push the relevant exclusion limits to the mass-scale indicated by neutrino oscillations. The experiment uses the novel approach of shielding crystals with a cryogenic liquid. The Max Planck Institute is one of the leading institutes in the project. We are responsible for the design and construction of new germanium detectors, the detector suspension and insertion system and the corresponding infrastructure. We are also involved in the simulation and analysis software.

The successful candidate is expected to take leadership responsibility in one or more of these efforts. Candidates should have a good knowledge and working experience in experimental particle, astroparticle or low background physics.

Salary and benefits are in accordance with the German public service pay scale (BAT Ib). The position is tenure track with the tenure review date depending on the level of experience of the candidate. The Max Planck Society wishes to increase the participation of women in its research activities. Therefore, applications from women are particularly welcome. Following its commitment to an equal opportunities policy, the Max Planck Society especially encourages handicapped persons to apply.

Further information can be obtained from Prof. Allen Caldwell (Email: caldwell@mppmu.mpg.de) or Dr. Iris Abt (Email: isa@mppmu.mpg.de). Interested applicants should submit an application letter, a statement of research interests, a curriculum vitae, a list of publications, by June 30, 2005, and arrange for three letters of support to be sent by the same date to

Max-Planck-Institut für Physik

(Werner-Heisenberg-Institut)

Prof. Allen Caldwell

Föhringer Ring 6

D-80805 München

Germany

For more information on the institute and its research visit our homepage at www.mppmu.mpg.de

POST-DOCTORAL POSITION, EXPERIMENTAL PARTICLE ASTROPHYSICS WITH GLAST AT THE STANFORD LINEAR ACCELERATOR CENTER

The Stanford Linear Accelerator Center (SLAC) is one of the world's leading laboratories supporting research in high-energy physics. The laboratory's program includes the physics of high-energy electron-positron collisions, high luminosity storage rings, high-energy linear colliders, and particle astrophysics and cosmology.

SLAC invites applications for a Post-doctoral Research Associate position to work with the Gamma-ray Large Area Space Telescope (GLAST) Large Area Telescope (LAT) instrument team. The LAT is the major payload of the GLAST DoE/NASA mission and is currently under construction at SLAC/Stanford University. GLAST will be launched by NASA in late summer 2007. For details of the LAT instrument, science program, and collaboration see <http://www-glast.stanford.edu/index.html>.

These positions are highly competitive and require a background of research in high-energy physics and/or particle astrophysics. Applicants should hold a recent Ph. D. in physics, or in astronomy with a strong physics background. He/she is expected to play a significant role in understanding the calibration and performance of the LAT from integration and test to flight operations, and to participate in the preparations for and in the analysis of the flight science data. Experience in high-energy astrophysics is desirable. The tenure of the position is two years, with the potential for subsequent annual renewals subject to satisfactory performance.

To receive full consideration, all application material should be received by July 31, 2005; past that date, the applications will be considered until the position is filled. Applicants should send a letter stating their physics research interests along with a CV and three references to:

Professor Persis Drell
Director of Research
Stanford Linear Accelerator Center
2575 Sand Hill Road
Menlo Park, CA 94025

Equal opportunity through affirmative action.



Looking for a new challenge or taking your first step into employment?

Visit the **JobsWatch** section on cerncourier.com and sign up now for the **FREE** jobs e-mail alerting service.

All of the latest jobs posted on **JobsWatch** will be e-mailed directly to you, giving you the advantage of viewing new vacancies immediately.

FREE
jobs e-mail
alert

Don't delay – sign up today!

cerncourier.com/jobs



The Cockcroft Institute

An International Centre for Research in
Accelerator Science and Technology

Two Faculty Positions and Three Fixed Term Research Positions

The Cockcroft Institute is a newly created centre for Accelerator Science and Technology in the UK. It is a joint venture of Lancaster University, the Universities of Liverpool and Manchester, CCLRC at the Daresbury and Rutherford Appleton Laboratories, the Particle Physics and Astronomy Research Council (PPARC), and the North West Development Agency (NWDA). It will soon be situated in a purpose-built building on the Daresbury Laboratory campus. The Institute's aim is to provide the intellectual focus, the educational infrastructure, and the essential scientific and technological facilities for scientists and engineers to take a leading role in global projects concerned with accelerator design, construction and operation for the foreseeable future. New, research-led, positions are now available. They all provide an exciting and unique opportunity to take a major role in the realisation of the Institute's vision.

www.lancs.ac.uk/cockcroft-institute

Lecturer in Engineering

Quote ref: A477

Salary: £23,643 - £35,883 p.a. Closing date: 30th June 2005

The University of Lancaster intends to make an appointment to a position of Lecturer in the Engineering Department.

The successful candidate will join the Microwave Research Group, which has an international reputation for its work in the fields of vacuum electronics and high power radio-frequency (RF) engineering, and (s)he will be expected to initiate and lead innovative R&D in RF engineering and technology concerned with particle acceleration and beam handling as part of the programme of the Cockcroft Institute. Close collaboration is established with the High Energy Physics and Mathematical Physics groups in the Department of Physics at Lancaster University and with CCLRC ASTeC.

Innovative contributions to undergraduate and postgraduate teaching in the Department of Engineering and in the Cockcroft Institute will be part of the Lecturer's duties.

The position is available immediately from appointment.

Candidates may contact **Professor Richard Carter** for informal discussions. (r.carter@lancaster.ac.uk, phone +44 1524 593086)

Research Position in Accelerator Engineering

Quote ref: A482

Starting salary up to £24,820 p.a.

Closing date: 30th June 2005

Applications are invited from highly motivated scientists and engineers to join the Accelerator Technology R&D programme of the Microwave Research Group of the Department of Engineering at Lancaster University in collaboration with the CCLRC ASTeC group at the Daresbury Laboratory.

A new position is available in the Crab Cavity collaboration immediately following appointment initially for a period of three years. The collaboration is concerned with the development of crab cavities and their RF system for the International Linear Collider (ILC). The achievement of the very difficult phase stability requirements, especially phase jitter between the two crab cavities, will require detailed understanding of the properties of the RF system including the klystron(s). The Crab Cavity collaboration is currently funded through the EU EuroTeV initiative and the PPARC LC-ABD consortium which is concerned primarily with the design and proof-of-principle of a beam delivery system for the ILC.

Informal enquiries can be addressed to **Professor Richard Carter** (r.carter@lancaster.ac.uk, tel: +44 1524 593086) and to **Dr Amos Dexter** (Project Leader, a.dexter@lancaster.ac.uk, tel: +44 1524 593085) Engineering Department, Lancaster University, Lancaster LA14YR, UK.

Further particulars and details of the application procedure for both positions are available from the **Director of Personnel, Lancaster University, Lancaster LA14YR**. Applications should be made on the form available at <http://www.lancs.ac.uk/users/personnel/apply.htm>.



Lecturer in Accelerator Physics

Quote ref: B495

Salary: £23,643 - £35,883 p.a. Closing date: 30th June 2005

An appointment is to be made to a position of Lecturer in the Department of Physics. The successful candidate will initiate and lead innovative R&D in the science and technology of particle acceleration and beam handling as part of the programme of the Cockcroft Institute. The successful applicant will also be a member of the new Accelerator Science group in the Physics Department, which will consist of five academic staff members. The Department has strong research groups in High Energy Physics, Nuclear Physics, and Condensed matter and Surface Physics. Close collaboration is already well established with the 4GLS and ERLP projects at Daresbury Laboratory and with CCLRC ASTeC. The infrastructure available both in the Liverpool Physics Department and at CCLRC Daresbury Laboratory constitutes a comprehensive resource in support of this position.

Innovative contributions to undergraduate and postgraduate teaching in the Department of Physics and in the Cockcroft Institute will be part of the Lecturer's duties.

The position is available immediately from appointment.

Informal enquiries can be made to **Professor John Dainton** (jbd@hep.ph.liv.ac.uk, tel: +44 151 794 7769, fax: +44 151 794 3444), and to the **Head of Department Professor Paul Nolan** (pjn@ns.ph.liv.ac.uk, tel: +44 151 794 3377, fax: +44 151 794 3362) Oliver Lodge Laboratory, University of Liverpool, Liverpool L69 7ZE.

Research Position in Accelerator Physics

Quote ref: B475

Starting salary up to £24,820 p.a.

Closing date: 30th June 2005

Applications from highly motivated scientists and engineers are invited for a new position in the Accelerator Science R&D programme of the High Energy Physics Group in the University of Liverpool's Department of Physics.

The position is available immediately following appointment and for a fixed term of initially 3 years.

The successful applicant will join the heLiCal project which is concerned with the development of an intense positron source primarily for the International Linear Collider (ILC) using a helical undulator insertion device, its optimisation for both luminosity and polarisation, and the robust delivery of its polarisation to the ILC interaction region.

The group includes ASTeC at the Daresbury and Rutherford Appleton Laboratories, DESY Hamburg and Zeuthen, and Liverpool and Durham Universities, and works in close collaboration with groups concerned with the ILC positron source in the US and in Europe (EuroTeV).

The position is funded through the EU EuroTeV initiative. The heLiCal group is also funded through the PPARC LC-ABD consortium, which is concerned primarily with the design and proof-of-principle of a beam delivery system for the ILC, and through CCLRC.

Informal enquiries can be addressed to **Professor John Dainton** (jbd@hep.ph.liv.ac.uk, tel: +44 151 794 7769, fax: +44 151 794 3444), **Oliver Lodge Laboratory, University of Liverpool, Liverpool L69 7ZE**, to **Dr Ian Bailey** (i.r.bailey@liverpool.ac.uk, tel: +44 151 794 2137), and to the **Project Leader, Dr Jim Clarke** (j.a.clarke@dl.ac.uk, tel: +44 1925 603267), ASTeC, CCLRC Daresbury Laboratory, Warrington WA4 4AD.

Further particulars and details of the application procedure for both positions, are available from the **Director of Personnel, The University of Liverpool, Liverpool L69 3BX** on +44 151 794 2210 (24 hr answer-phone), via email: jobs@liv.ac.uk, or at <http://www.liv.ac.uk/university/jobs.html>

Research Position in Linear Collider Accelerator Physics

Quote ref: EPS/127/05

Starting salary up to £24,820 p.a.

Closing date: 30th June 2005

Manchester University intends to appoint a Post Doctoral Research Associate to join the Accelerator Physics programme in the School of Physics, part of the Cockcroft Institute.

The position is available immediately following appointment for a period of three years in the first instance.

The team is concerned with the design of collimation systems for the ILC: the technical challenges involved in design and fabrication, the effects on the beam bunch structure through wake fields, the production and removal of halo backgrounds, and the survival of the

collimator elements themselves. The work includes computer simulation using codes such as ANSYS and MERLIN, and experimental measurements in a test beam programme.

These collimation studies are carried out in collaboration with groups in the EuroTeV initiative, the LC-ABD consortium, and CCLRC.

For informal inquiries contact **Professor Roger Barlow** (Roger.Barlow@manchester.ac.uk), +44 161 275 4178. Further particulars and an application form are available from the **EPS HR Office, Manchester University, Sackville St, Manchester M60 1QD** or on <http://www.man.ac.uk/news/vacancies/research.html>



Research Associate - Fixed Term (VN2705)

The Particle Physics Department at the CCLRC Rutherford Appleton Laboratory is one of the largest experimental particle physics research groups in the UK. It is a member of the CMS collaboration, where it plays major roles in the Tracker readout electronics and online software, the Electromagnetic Calorimeter and the event reconstruction software.

We invite applications for a Research Associate position. During the first year or two of the post, you are likely to spend extended periods at CERN, contributing to the testing and commissioning of the Tracker electronics and contributing to the real-time C++ software that controls it. In the final year or so of the post, as CMS nears completion, you would probably spend an increasing fraction of your time performing particle physics analysis with colleagues in the UK.

If you have a PhD in experimental particle physics and you are keen to meet the challenge of helping to complete CMS and extract the physics from it, then we look forward to hearing from you. Experience of C++ programming, of using/testing complex electronics and of physics analysis is desirable. If you are not yet familiar with all these topics, a willingness and ability to learn are essential.

For further information about the post please contact Dr. Ian Tomalin (tel.: 0044-(0)1235-445046, E-mail: I.R.Tomalin@rl.ac.uk).

Salary is in the range £22,605 to £26,911, dependent on experience. The appointment will be for three years, starting at the earliest possible date.

Application forms can be obtained from: Operations Group, HR Division, CCLRC, Chilton, Didcot, Oxfordshire, OX11 0QX. Telephone (01235) 445435 (answerphone) or e-mail: recruit@rl.ac.uk quoting reference number VN2705. For more detailed information about the CCLRC please visit www.cclrc.ac.uk

Closing date for applications is 4 July 2005.



www.cclrc.ac.uk

CERN COURIER

Book into the July/August issue of *CERN Courier* and gain two months' coverage for the price of one, plus get extra exposure as a result of bonus distribution at the EPS – 19th Nuclear Division Conference in the Czech Republic in August.

To enhance your campaign further, your position will benefit from up to 16 weeks' exposure on the websites cerncourier.com and physicsweb.org/jobs.

For more information, contact Yasmin Agilah:

Tel:

+44 (0) 117 930 1196

E-mail:

yasmin.agilah@iop.org



Laboratório de Instrumentação e Física Experimental de Partículas

LIP opens three 3-year research positions for experimental particle physicists, two for the Lisbon branch and one for the Coimbra branch. Applicants with a solid CV and at least two years experience after their PhD will be considered. These positions can be renewed or converted into staff positions at the end of the first three years term.

The present activities of LIP-Lisbon cover the participation in experiments and R&D at CERN (ATLAS, CMS, COMPASS), in astroparticle experiments (AMS, EUSO, SNO) and in medical physics projects. For details, see <http://www.lip.pt>

The present activities of LIP-Coimbra cover areas of accelerator experiments (ATLAS, at CERN, and HADES, at GSI), astroparticle experiments (UK Dark Matter Collaboration), as well as R&D on different detector technologies for particle physics and biomedical applications (liquid xenon, timing RPCs, GEMs and air fluorescence). For details, see <http://www.lip.fis.uc.pt>

Until the 29th July 2005, candidates should send their CVs and letters of reference to the LIP Directorate, Av. Elias Garcia, 14, P-1000-149 Lisboa, Portugal (for the LIP-Lisbon positions), or to LIP Directorate, Departamento de Física da Universidade de Coimbra, Rua Larga, 3004-516 Coimbra, Portugal (for the LIP-Coimbra position). Further information can be requested from LIP Directors (direccao@lip.pt for Lisbon or direccao@lip.fis.uc.pt for Coimbra).

INDEX TO DISPLAY ADVERTISERS

Amptek	22	Company	33
Bruker Biospin	52	Milmega	4
Burle Industries	8	Ocean Optics	25
CPI/EiMac Division	19	Polymicro	29
Creative Electronics Systems	2	QEI	29
Cremat	33	Red Hat	14
Criotec	22	Reinhardt Microtech	33
Danfysik	4	Saint-Gobain Crystals	10
Electron Tubes	31	Uni Software Plus	19
FuG Elektronik	15	VAT Vacuum Products	10, 21
Instrumentation Technologies	31	WieNeR Plein & Baus	51
Janis Research			

The index is provided as a service and, while every effort is made to ensure its accuracy, *CERN Courier* accepts no liability for error.