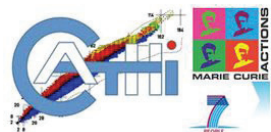


Recruitment

FOR ADVERTISING ENQUIRIES, CONTACT *CERN COURIER* RECRUITMENT/CLASSIFIED, IOP PUBLISHING, TEMPLE CIRCUS, TEMPLE WAY, BRISTOL BS1 6BE, UK.
TEL +44 (0)117 930 1264 FAX +44 (0)117 930 1178 E-MAIL SALES@CERNCOURIER.COM
PLEASE CONTACT US FOR INFORMATION ABOUT RATES, COLOUR OPTIONS, PUBLICATION DATES AND DEADLINES.



The EU-funded 7th Framework Programme has two main strategic objectives: to strengthen the scientific and technological base of European industry and to encourage its international competitiveness, while promoting research that supports EU policies.

As part of this Programme, initial training of researchers is being offered through Marie Curie Networks which will improve their research skills and help them join established research teams. In parallel, complementary training will enhance their career prospects in both public and private sectors.

We are looking for four Experienced Researchers to participate in a Marie Curie Initial Training Network (ITN) offering research training in the application of advanced accelerator technology, beam instrumentation, radiation protection and advanced material technologies in one of Europe's leading Radioactive Ion Beam facilities (ISOLDE) at CERN, and its future upgrade (HIE-ISOLDE).

Job titles :

- ER1: Low level RF
- ER2: Beam Instrumentation Developments
- ER3: Radioactive Ion Beams Quality Improvements
- ER4: General Safety and Radiation Protection Implications Studies



For detailed job descriptions and eligibility conditions please see the project website:
<https://hr-recruit.web.cern.ch/hr-recruit/special/CATHI.asp>

THALES

Being present in 50 countries with a staff of 68,000 employees, THALES is the world leader in critical information systems for Aerospace, Defense and Security. The Microwave & Imaging Sub-Systems Business Line (420 M€ sales, 2,700 employees) provides to the market state of the art RF power and imaging solutions. For our research and manufacturing centre in Velizy (France), we are offering a position of **High Power Microwave Source Designer**.

Your missions will be to take in charge the development of new high power RF sources to be used in the large science laboratories worldwide. These powerful RF sources enable to accelerate the particle beams in major accelerator facilities (at CERN, DESY...) and also to heat the plasma in advanced fusion reactors (W7X, ITER...).

In the frame of these development projects, you are leading technical proposals and exchanges with the customers. You have the technical responsibility of product development. Your activities include detailed simulations, supervision of technical validations, drawing file elaboration and prototype manufacturing as well as high power testing of prototypes in the factory and on customer site.

The skills required are: Master degree in Physics or Microwaves in a European University or Engineering School; PhD or 3 years minimum experience in Research and Development with good practice of RF measurements, basic knowledge in vacuum techniques and/or materials science. Fluent English and French languages (or good bases to learn quickly)

Contact : Mathilde PELLEING (Human Resources Manager) –
mathilde.pelleing@thalesgroup.com -
2 rue Marcel DASSAULT –
78140 VELIZY VILLACOUBLAY - France



ELEKTA

Elekta is a human care company pioneering significant innovations and clinical solutions for treating cancer and brain disorders. The company develops sophisticated state of the art tools and treatment planning systems for radiation therapy and radiosurgery, as well as workflow enhancing software systems across the spectrum of cancer care.

We have a number of vacancies for Physicists to join our R&D Physics group in Crawley. The Physics group is responsible for providing support to the business and contribute with designs and measurements in the following areas: Physics of Radiotherapy Systems, including beam generation and dosimetry (electron beams, MV and kV photon beams), general Radiation Physics, Monte Carlo simulations and other computational modelling methods, Control Systems for experiments, Microwave components and theory, Waveguide testing and tuning, Optics, Physics of Detectors and Imaging Systems.

Successful applicants will take a leading role in supporting the development of new products and will be involved on a number of projects including both computational and experimental activities. Ideally candidates will have experience of medical accelerator systems and the ability to contribute in several of the areas that the Physics group is responsible for. Projects will often offer interaction with Research Hospitals and other Institutions, therefore exceptional written and spoken communication skills will be required. Our preference is for candidates to be educated to MSc or PhD level. The ability to work to tight deadlines and within a successful team is also essential for these roles.

Current vacancies include (but are not limited to):

- **Radiotherapy System Physicist:** You will take a leading role in designing, planning, implementing and managing test programmes in order to produce performance data for Elekta Linac systems. You will be involved in a variety of R&D projects. You will ideally

have an MSc or a PhD degree in Medical Physics, Radiation Physics or closely related discipline and a minimum of 3 years experience working within the Medical Devices industry or a Radiotherapy Hospital department (although experience as a Radiation Physicist in another area will be considered). Experience with international compliance standards and/or Physics QA programmes will be an advantage.

- **Accelerator Physicist:** You will provide the business with technical support of Elekta RF electron linear accelerators and associated developments, with particular focus on beam generation, transport, control and monitoring. This role will require an understanding of periodic accelerating structures, electron sources, RF sources and electron beam dynamics. Ideal candidates will have a PhD degree in Physics, Accelerator Physics, Particle Beam Physics or closely related discipline. Candidates will have ideally a minimum of 5 years experience as an accelerator physicist, involved with modelling aspects of accelerating structures as well as beam experiments, either in a research or industrial environment. However applicants with less experience yet exceptional skills will also be considered.
- **Imaging Physicist:** We also have an upcoming requirement for an Imaging Physicist.

Elekta offer competitive salary packages and a range of benefits including 25 days holiday, Private Medical Insurance and an excellent Pension scheme.
For further details please apply today by sending your CV to
recruitment.uk@elekta.com and quote which position you are interested in.

Accelerator | Photon Science | Particle Physics

Deutsches Elektronen-Synchrotron
A Research Centre of the Helmholtz Association

ACCELERATOR RESEARCH.

DESY, Hamburg location, is seeking:

Leading Scientist (m/f) DESY
Salary group W3

DESY

DESY is one of the world's leading accelerator centres for the investigation of matter. Within its mission DESY develops, runs and scientifically exploits accelerators and detectors for the research with photons and for particle physics. Accelerator physics and technology are part of DESY's key competences. DESY wishes to strengthen its programme in accelerator research and development in the context of the newly established Accelerator Research & Development (ARD) initiative of the Helmholtz Association, including the following topics: generation, dynamics and diagnostics of femtosecond beams, electron-photon interactions and advanced acceleration concepts.

The position

DESY is seeking a leading senior scientist in the accelerator division with the following responsibilities:

- Conduct a strong, world-class research program on these topics and assume the respective leadership in the accelerator division
- Coordination of the ARD activities with other accelerator centres in the Helmholtz Association and with German universities
- Collaboration in accelerator R&D with European and international partners

Requirements

- PhD in physics or engineering
- Several years of experience in at least one of the above mentioned research topics
- Significant experience in planning and organizing complex, large scale projects
- Excellent communication and leadership skills

The successful candidate is expected to participate in shaping the strategic development of DESY's accelerator activities, in close collaboration with the division management.

For further information, please contact Prof. Dr. Helmut Dosch (desy-director@desy.de, Phone +49 40 8998 3000) or Dr. Reinhard Brinkmann (reinhard.brinkmann@desy.de, Phone +49 40 8998 3197).

Salary and benefits are commensurate with those of public service organisations in Germany. DESY operates flexible work schemes. Handicapped persons will be given preference to other equally qualified applicants. DESY is an equal opportunity, affirmative action employer and encourages applications from women. There is a bilingual German-English Kindergarten on the DESY site.

Please send your application quoting the reference code, also by Email to:

Deutsches Elektronen-Synchrotron DESY

Human Resources Department, Code: 118/2011

Notkestraße 85, 22607 Hamburg, Germany

Phone: +49 40 8998 3392, Email: personal.abteilung@desy.de

Deadline for applications: 30th September 2011

www.desy.de

The Helmholtz Association is Germany's largest scientific organisation.
www.helmholtz.de



Accelerator | Photon Science | Particle Physics

Deutsches Elektronen-Synchrotron
A Research Centre of the Helmholtz Association

EXPERIMENTAL PARTICLE PHYSICS.

DESY, Hamburg location, is seeking:

Leading Scientist (m/f) DESY
Salary group W3

DESY

DESY is one of the world's leading centres for the investigation of matter. Within its mission DESY develops, runs and scientifically exploits accelerators and detectors for photon science and particle physics. The particle physics programme of DESY consists of strong contributions to the LHC experiments ATLAS and CMS and to the preparation of a future linear collider, as well as to the completion of the analyses of the HERA experiments. The experimental programme is enhanced by collaboration with a strong theory group. DESY collaborates closely with German groups in the framework of the Helmholtz Alliance "Physics at the Terascale" and internationally with major laboratories and institutes in particle physics.

To strengthen its present and future particle physics programme, DESY seeks a leading scientist in experimental particle physics at the Hamburg site. The position is equivalent to a full professor (W3) at a German university.

The position

- Assume a leadership position in the experimental particle physics programme
- Assume a leading role in DESY's CMS activities
- Contribute to shaping the future DESY particle physics programme

Requirements

- Internationally recognized scientist in the field of particle physics at colliders
- Demonstrated leadership abilities in high energy physics projects
- Outstanding qualifications in particle physics analyses and instrumentation

For further information, please contact Prof. Dr. Helmut Dosch (desy-director@desy.de, Phone +49 40 8998 3000) or Prof. Dr. Joachim Mnich (joachim.mnich@desy.de, Phone +49 40 8998 1921).

Salary and benefits are commensurate with those of public service organisations in Germany. DESY operates flexible work schemes. Handicapped persons will be given preference to other equally qualified applicants. DESY is an equal opportunity, affirmative action employer and encourages applications from women. There is a bilingual German-English Kindergarten on the DESY site.

Please send your application quoting the reference code, also by Email to:

Deutsches Elektronen-Synchrotron DESY

Human Resources Department, Code: 117/2011

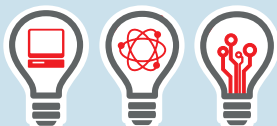
Notkestraße 85, 22607 Hamburg, Germany

Phone: +49 40 8998 3392, Email: personal.abteilung@desy.de

Deadline for applications: 30th September 2011

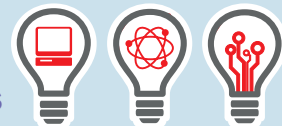
www.desy.de

The Helmholtz Association is Germany's largest scientific organisation.
www.helmholtz.de



brightrecruits.com

Connecting motivated jobseekers with high-profile employers





UPPSALA
UNIVERSITET

Uppsala University is an international research university that targets development in research and education. Uppsala University has 40 000 students, 5 500 employees and a turnover of 5 000 MSEK.

Uppsala University intends to employ

Four Researchers Four Post-doctoral Researchers Four Research Engineers Two Doctoral Students in Physics with specialization in accelerator physics and RF-systems

The accelerator physics group at the Department of Physics and Astronomy performs research towards future particle accelerators. The group will construct a superconducting RF test facility in Uppsala.

Complete information about the position is available at <http://www.uu.se/jobb>

You are welcome to submit your application no later than the 31st August 2011.

www.uu.se

Project Manager

£40,000 - £55,000, depending on experience

Tessella delivers software engineering and consulting services to scientists and engineers in leading companies across the globe. We are currently looking to recruit Project Managers who will help drive our business forward.

This is a varied, challenging and rewarding role:

- Working with sales staff to understand a prospect's problem
- Gathering requirements, analysing needs, feeding back to the client
- Architecting technical solutions by working closely with others
- Managing the full project lifecycle from first meeting to delivery
- Being an active line manager

You should have a scientific or numerate degree (BSc, MSc, or PhD), experience of hands-on software development and a track record of Project Management including the successful delivery of fixed price projects.

For more information on this and our other vacancies and to apply online, visit

jobs.tessella.com



Certificate No. PM 20778






In the framework of the newly established *Albert Einstein Center for Fundamental Physics* (AEC), the Faculty of Sciences of the University of Bern invites applications for a position of:

Tenure-track Assistant Professor of Experimental Astroparticle Physics

opening on *August 1, 2012* at the *Laboratory for High Energy Physics* (LHEP), University of Bern, Switzerland.

The successful candidate should have an outstanding experimental research record. Competences are required in one or more of the following fields: dark matter search, cosmic-ray physics, low-energy neutrino physics, neutrino astronomy, matter stability experiments. Experience with particle detectors and advanced experimental methods is a requisite. The new professor is expected to contribute to the research activities on astroparticle physics at LHEP and AEC, to promote future leading projects, to actively participate in the teaching of physics at both the undergraduate and graduate level, and to attract external funding.

In addition to astroparticle physics, the current scientific research of LHEP is in the fields of high-energy proton–proton collisions, neutrino oscillation physics, development of novel particle detectors and medical applications of particle physics; the successful candidate will be encouraged in proposing and establishing synergic research programs with those activities.

The University of Bern particularly encourages women to apply for this position.

Applications (in English) should include curriculum vitae, list of publications, copies of the five most relevant publications and an outline of current and planned scientific activities.

Applications should be sent as a single PDF file or as a hard copy by 15 October 2011 to: **Prof. S. Decurtins, Dean of the Faculty of Science** University of Bern, Sidlerstrasse 5, CH-3012 Bern Switzerland

(e-mail: dekan@natdek.unibe.ch).

Further information about the *Laboratory for High Energy Physics* can be found at: <http://www.lhep.unibe.ch>. Enquiries about the position should be addressed to: **Prof. A. Ereditato, Director of LHEP**, Sidlerstrasse 5, CH-3012 Bern, Switzerland. Phone: +41 31 631 8566, e-mail: antonio.ereditato@lhep.unibe.ch.


www.ox.ac.uk/jobs

Professorship of Experimental Physics

In association with St Catherine's College

Start date: 1 October 2012

or earlier if possible.



The Professorship of Experimental Physics is one of two attached to the sub-department of Particle Physics, one of the six sub-departments which constitute the Department of Physics. This is a key senior role at the sub-department of Particle Physics and you will be expected to strengthen the department's international research profile and to provide strategic scientific leadership and excellent teaching in experimental particle physics.

A world-leading portfolio in experimental particle physics activity has been developed at Oxford. Main research areas of expertise include the ATLAS and LHCb experiments at LHC and preparations for their upgrade; neutrino physics including MINOS, T2K and SNO+; and astroparticle physics, including dark matter detection in the EDELWEISS experiment and the proposal for EURECA. As particle physics is currently at an exciting stage of development with critical experiments underway and about to yield results, we are seeking to appoint a leading experimental particle physicist who would be well placed to consolidate and enhance Oxford's position as a major player in the field.

Please see the further particulars at http://www.ox.ac.uk/about_the_university/jobs/fp/ for more details about the post and for full instructions before making an application. Applications, including a covering letter and full CV, and naming three referees should be received no later than Monday 26 September 2011 by Dr Gwen Booth, Personnel Officer, Senior Appointments at professorships@admin.ox.ac.uk. If you have a query about how to apply, please contact Mrs Elaine Eastgate at professorships@admin.ox.ac.uk or telephone: +44 (0) 1865 280189.

Applications are particularly welcome from women and black and minority ethnic candidates, who are under-represented in academic posts in Oxford.

Committed to equality and valuing diversity



Florida Institute of Technology
High Tech with a Human Touch™

FACULTY POSITION IN EXPERIMENTAL PARTICLE PHYSICS

The Department of Physics and Space Sciences at Florida Institute of Technology invites applications for a full-time faculty position to begin in spring or fall 2012 contingent upon the availability of funds. Appointments at all academic ranks will be considered. Applications are welcome from candidates with a Ph.D. degree in physics and working in experimental high-energy particle physics.

The current Florida Tech HEP research program is centered on multi-TeV proton-proton collider physics with the CMS experiment at CERN, as well as detector development with the RD51 collaboration and grid computing. The department is seeking an outstanding candidate to strengthen our CMS research program. For more information on HEP at Florida Tech see www.fit.edu/pss or contact Professors Marc Baarmand (baarmand@fit.edu) and Marcus Hohlmann (hohlmann@fit.edu).

The successful candidate will be expected to conduct a vigorous, externally funded research program and must be committed to excellence in graduate and undergraduate education. To apply, please email in a single pdf file your CV, list of publications, description of current research and future plans, teaching philosophy, and contact information for five references to Professor Terry Oswalt, Department Head (email: HEPsearch@fit.edu). Applications will be reviewed beginning October 3, 2011 and will be accepted until the position is filled. Florida Institute of Technology is an Equal Opportunity/Affirmative Action Employer. Women and minorities are encouraged to apply.



**Cornell Laboratory for
Accelerator-based Sciences
and Education (CLASSE)**

Sr. Research Associate I

The Head of the CLASSE RF group will be responsible for the RF systems of the four CLASSE accelerators and for the R&D program in RF associated with future ventures. Currently the primary research program centers on the Energy Recovery Linac design and development.

The operating accelerator RF systems comprise both normal conducting and superconducting systems and encompass S, L and UHF bands.

The successful candidate will supervise engineers and technicians and be involved in establishing RF R&D activities as needed to support current and future accelerator projects.

The successful candidate will have experience in RF design, construction and operation. Knowledge of the beam-cavity interaction and its impact on the corresponding RF system design is desirable.

A PhD in Electrical Engineering or Physics and at least seven years experience in high power RF systems and the low level RF systems that regulate them is required. Must be a leader in the field with significant publication list.

Please send a cover letter, including curriculum vitae and a publications list to Professor Georg Hoffstaetter, Newman Laboratory, Cornell University, Ithaca, NY 14853, and arrange for three letters of recommendation to be sent. Correspondence may be directed to search-classe@cornell.edu.

Cornell University is an equal opportunity, affirmative action educator and employer.

Visit **brightrecruits.com**
for your next career move



Universität Hamburg
DER FORSCHUNG | DER LEHRE | DER BILDUNG

Unterstützt von / Supported by



Alexander von Humboldt
Stiftung/Foundation

The School of **Mathematics, Informatics and Natural Sciences**, invites applications for a

W1 JUNIOR PROFESSORSHIP IN EXPERIMENTAL PHYSICS FOCUS ON ACCELERATORS OF HIGHEST ENERGIES

Starting as soon as possible (ref. no. JP173)

Applicants are expected to demonstrate research experience on an international level as well as a successful track record in procuring external project funding. The University places particular value on the quality of teaching. We therefore request applicants provide details of both their teaching experience and their future teaching objectives.

The University aims to increase the number of women in research and teaching and explicitly encourages women to apply. Equally qualified female applicants will receive preference in accordance with the Hamburg Higher Education Law.

Tasks and responsibilities:

The Department of Physics conducts cutting-edge research in particle physics (LHC, HERA, neutrino physics), astroparticle physics, astronomy, detector and accelerator development, nano-science and photon science in a very international environment.

We are searching for an outstanding scientist with experience in areas related to novel acceleration techniques aimed at application in energy-frontier machines for particle physics to play a leading role in a major new initiative associated with a Humboldt Professorship. In particular we are interested in aspects of laser-plasma acceleration and plan a comprehensive programme on investigations in this area over the next decade. This programme will utilise unique facilities and integration expertise available at Deutsches Elektronen Synchrotron (DESY). We seek persons with experience in some or all of the following areas: plasma wake-field acceleration; modelling and properties of plasmas; high-power laser techniques; accelerator physics.

Duties include holding lectures, exercise-classes and seminars as well as thesis supervision in courses offered by the Department of Physics.

Junior professors are obliged to teach four academic hours per week in the first four years of their professorship, rising to six academic hours per week in the final two years.

Requirements:

Conditions of employment are in accordance with § 18 of the Hamburg Higher Education Law.

Severely disabled applicants will receive preference over equally qualified non-disabled applicants.

Further information can be obtained from Prof. Dr. Brian Foster (Phone +49 40 8998 3201, email brian.foster@desy.de)

Applications should include a curriculum vitae, a list of publications, details of teaching experience and proposals for future courses. The deadline for applications is **31st October 2011**. Please send applications, accompanied by the **reference number JP173**, to: Präsident der Universität Hamburg, Referat Organisation & Personalentwicklung, Ausschreibungsstelle, Moorweidenstraße 18, 20148 Hamburg, Germany or via email to: UniHHAusschreibungsstelle@verw.uni-hamburg.de.



Accelerator | Photon Science | Particle Physics

Deutsches Elektronen-Synchrotron
A Research Centre of the Helmholtz Association



Unterstützt von / Supported by



Alexander von Humboldt
Stiftung/Foundation

ACCELERATOR & PARTICLE PHYSICS RESEARCH.

**DESY, Hamburg location, is seeking to fill
several positions:**

Postdocs and Postgraduate Students (m/f)

DESY

DESY is one of the world's leading accelerator centres for the investigation of matter. Within its mission DESY develops, runs and scientifically exploits accelerators and detectors for the research with photons and for particle physics.

The award of an Alexander von Humboldt Professorship to Professor Brian Foster will result in a number of vacancies in the fields of accelerator research aimed at reaching the highest possible energies, in particular in fields relating to superconducting radio-frequency acceleration techniques, plasma wake-field acceleration and in particle physics research.

DESY is seeking two postdocs in the following areas:

- Analysis of ZEUS data and combination with H1 data to form final HERA physics results, to be combined with work in another area of the DESY particle physics research programme
- Accelerator physics related to the areas referred to above, including knowledge of beam optics and the design and operation of accelerators; the successful candidate will be expected to work closely with the accelerator department at DESY in the conception and operation of facilities at for example FLASH to carry out the research programme described above

Requirements

- PhD in physics or engineering
- experience in at least one of the above mentioned research topics
- good communication and leadership skills

In addition DESY is seeking two students in each of the above areas, with the possibility of working in both areas if desired:

Requirements

- Masters degree or equivalent in physics or engineering
- enthusiasm for at least one of the above mentioned research topics
- good communication skills

For further information, please contact Prof. Dr. Brian Foster (email brian.foster@desy.de, Phone +49 40 8998 3201).

The postdoc positions are limited initially to a period of 3 years. Salary and benefits are commensurate with those of public service organisations in Germany and will be at the E13 or E14 levels, depending on experience and qualification. DESY operates flexible work schemes. Handicapped persons will be given preference to other equally qualified applicants. DESY is an equal opportunity, affirmative action employer and encourages applications from women. There is a bilingual German-English Kindergarten on the DESY site.

Please send your application quoting the reference code, also by email, to:

Deutsches Elektronen-Synchrotron DESY

Human Resources Department, Code: 134/2011
Notkestraße 85, 22607 Hamburg, Germany
Phone: +49 40 8998 3392, email: personal.abteilung@desy.de

Deadline for applications: 31st October 2011
www.desy.de

The Helmholtz Association is Germany's
largest scientific organisation.
www.helmholtz.de



IEEE Nuclear Science Symposium and Medical Imaging Conference

**Valencia, Spain
23-29 October 2011**

Valencia Convention Center

**18th International Workshop on
Room-Temperature Semiconductor X-Ray
and Gamma-Ray Detectors**

**Industrial Exhibition / Short Courses /
Special Focus Workshops**

David W. Townsend, General Chair
Conference e-mail: nssmic2011@ciemat.es
Conference web-site: www.nss-mic.org/2011

