

RECRUITMENT

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The Indiana University Cyclotron Facility (IUCF) is a multidisciplinary institution supporting research in Accelerator Physics, Condensed Matter and Materials Physics, Medical Physics and Nuclear Physics and Chemistry. IUCF is also developing two major new research facilities – The LENS Neutron Source and the ALPHA electron storage ring. LENS is a pulsed neutron source supporting the study of large scale structures and neutron radiation effects testing. ALPHA will consist of a 60 MeV long pulse LINAC and electron storage ring to support accelerator physics research, radiation effects testing and the development of an Inverse Compton Scattering X-ray source. Several positions are now available to support these research and development activities at IUCF.

Postdoctoral Position in Accelerator Physics (1) – to participate in the design, construction and commissioning of the LINAC and Storage Ring. The successful candidate will have a PhD in Accelerator Physics, Nuclear Physics or Electrical Engineering. Experience with electron LINACS, vacuum systems, and controls is highly desirable.

Postdoctoral Position in Accelerator Physics (2) – to participate in the development of optical diagnostics for electron beams based on laser wires and Inverse Compton Scattering. The successful candidate will have a PhD in Accelerator Physics, Nuclear Physics, Condensed Matter Physics or Optics. Experience with lasers and optical systems is essential.

Staff Position in Accelerator Physics – to support the development of a high intensity electron linear accelerator and storage ring facility. The successful candidate will have a PhD in accelerator physics or related field and a minimum of five years experience in an accelerator laboratory environment. The candidate will have a demonstrated ability to lead a team of scientists, engineers and technicians to design, deploy and commission a synchrotron and must have a working knowledge of accelerator operations, accelerator controls, and beam diagnostics. Experience in electron accelerators is a strong asset. Applicants for this position should apply online at <http://www.indiana.edu/~uhrs/jobs/index.html>.

Interested postdoctoral applicants should send a CV and a statement of research interests, along with 3 names for reference to: **Dianne Dupree, IUCF, 2401 Milo B. Sampson Lane, Bloomington, IN 47408**, or to didupree@indiana.edu.

Indiana University is an Affirmative Action, Equal Opportunity Employer committed to excellence through diversity. The University actively encourages applications of women, minorities, and persons with disabilities. Applications will be reviewed until a suitable candidate is identified.

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Director Center for Accelerator Science Old Dominion University

Old Dominion University invites applications for the position of Director of the Center for Accelerator Science. The newly created Center builds upon the existing collaboration between ODU and the Thomas Jefferson National Accelerator Facility (Jefferson Laboratory) in accelerator science and technology. The Center will initially focus on superconducting RF cavities, accelerator design, and high current DC and RF guns. The director is expected to hold appointment as a tenured faculty member in the ODU Physics Department and is jointly funded by ODU and Jefferson Laboratory.

The successful applicant will be responsible for building an internationally recognized, interdisciplinary research and teaching program that will address current and future challenges in accelerator science and technology. The Director will provide leadership to obtain external funding for a broad range of projects, attract faculty and staff, and establish national and international collaborations. As a member of the Physics faculty, the Director will have teaching responsibilities as well.

Old Dominion University is a public institution located in Norfolk, Virginia, serving 23,000 students. The ODU Physics department (<http://sci.odu.edu/physics/>) has internationally recognized research groups in experimental and theoretical nuclear physics, experimental and theoretical atomic and few-body physics, accelerator physics and material science. Within ODU, many opportunities exist for interdisciplinary collaborative research with groups in Mathematics, Oceanography, Chemistry, Computer Science, Material Science and Engineering. Jefferson Laboratory, with its ongoing and possible future partnerships in developing next generation accelerators, provides further exciting opportunities. The proximity of the Eastern Virginia Medical School, the Applied Research Center at Jefferson Laboratory, NASA Langley, the Virginia Modeling, Analysis, and Simulation Center, and nearby universities creates an intellectually stimulating environment.

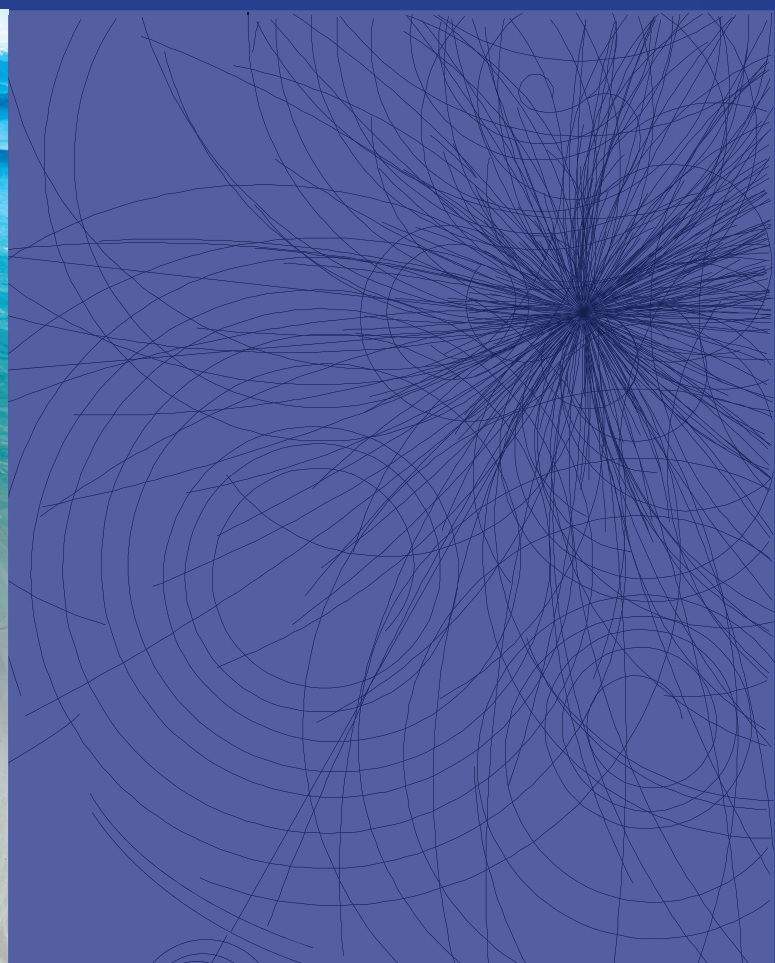
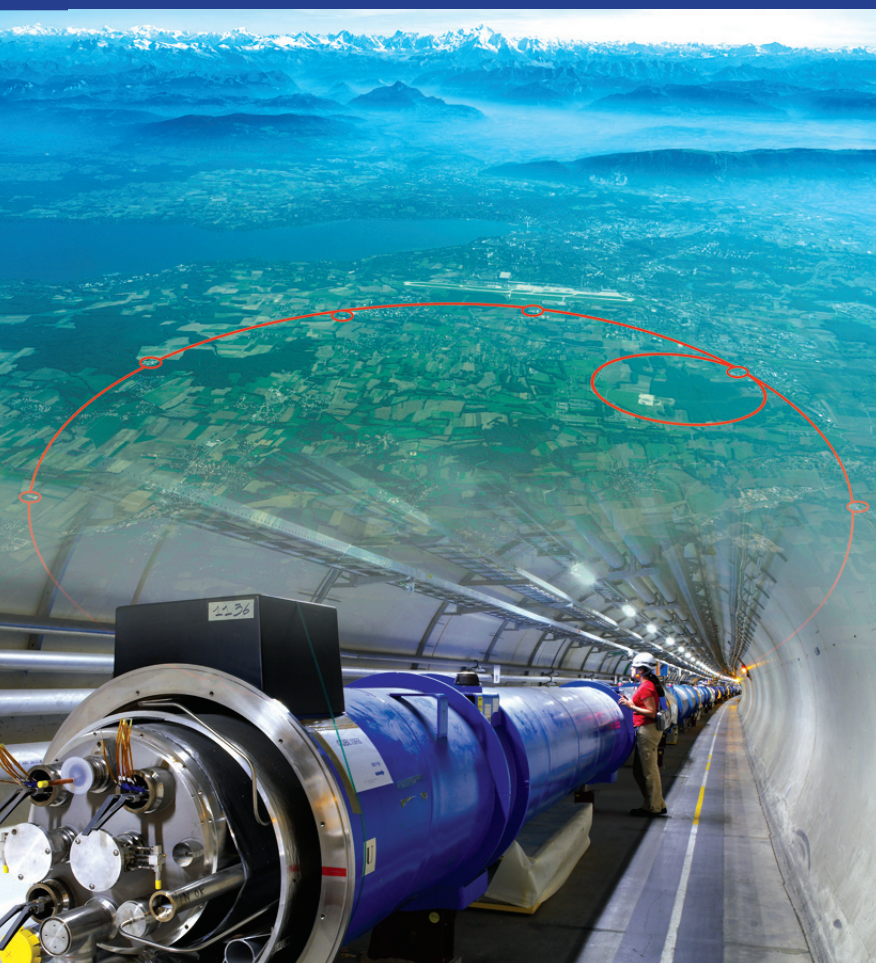
Applicants must have a Ph.D. in accelerator, particle or nuclear physics, or related field, and extensive experience beyond the Ph.D., including outstanding contributions to accelerator science or related fields. Applicants should submit a letter of application describing the individual's qualifications for the position, a curriculum vitae, and names and contact information of four references to: **Director Search Committee, Department of Physics (Room 306), Old Dominion University, 4600 Elkhorn Ave., Norfolk, Virginia, 23529** or email **Dr. Lepsha Vuskovic – vuskovic@odu.edu**. Review of applications will begin on November 24 and continue until the position is filled.



Old Dominion University is an affirmative action, equal opportunity institution and requires compliance with the Immigration Reform and Control Act of 1986.

December issue

Booking deadline: Friday 7 November, copy deadline: Monday 10 November, distribution: Wednesday 19 November
Call Moo Ali on +44 (0)117 9301264 for more details



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or contact us:

recruitment.service@cern.ch

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European Organization for Nuclear Research
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UNIVERSITY of ROCHESTER

Tenure Track Faculty Position in Experimental Particle Physics in the Department of Physics and Astronomy

The Department of Physics and Astronomy at the University of Rochester invites applications for a tenure-track faculty position in Experimental Particle Physics. With this position, we seek to broaden the research portfolio of our existing program, which includes research in hadron collider physics at CMS (LHC), CDF and D0, neutrino physics at MINERvA and T2K and quark flavor physics at CLEO and BES. We are particularly interested in considering candidates with a research interest in non-accelerator based particle physics or particle astrophysics, but will consider candidates across the spectrum of Experimental Particle Physics.

Applicants should have a Ph.D., an outstanding record of research, and a commitment to excellence in teaching at both the undergraduate and the graduate level. The appointment is anticipated to be at the junior level; however, applicants at a more senior level will also be considered. Each candidate should submit a letter of application, a curriculum vitae including a list of publications, a description of research and teaching plans and arrange for at least four letters of recommendation to be sent to:

HEP Faculty Search Committee, c/o Ms. Shirley Brignall, Department of Physics and Astronomy, University of Rochester, Rochester, NY 14627

Applications may also be submitted by email sent to shirl@pas.rochester.edu. Applications will be considered on an ongoing basis beginning in November 2008.

The University of Rochester, an Equal Opportunity Employer, has a strong commitment to diversity and actively encourages applications from candidates from groups underrepresented in higher education.

Jefferson Lab Thomas Jefferson National Accelerator Facility

Superconducting Magnet Engineer:

Candidate will be part of the Engineering Division management team and function as a subject matter expert supporting the design, procurement, commissioning and operation of 7 large superconducting magnets for the 12 GeV CEBAF Upgrade of Halls B & C. The upgrade will double the power of the lab's electron beam to 12 billion electron volts, making it the most powerful tool of its kind in the world providing scientists a more accurate picture of quarks, the fundamental building blocks of life.

The candidate is expected to provide team leadership and comprehensive engineering support for projects from conception through design, fabrication, assembly and commissioning. The candidate will also provide system expert operations support for the lifetime of the devices, including trouble shooting, routine maintenance and repair.

The individual will be required to provide cost, schedule and resource information to management for planning and tracking progress of projects.

Qualifications: M.S. or Ph. D. degree in Engineering or Physics with at least 12 yrs documented experience leading significant scale super conducting magnet projects. Experience with Engineering Analysis tools such as FEA and TOSCA 3D Magnetic Analysis is required. Proficiency in magnet design codes, POISSON and/or OPERA, is strongly desired.

For information: **www.jlab.org**

Indiana University EXPERIMENTAL NUCLEAR PHYSICS FULL PROFESSOR

The Department of Physics at Indiana University invites applications for a senior-level faculty position in experimental nuclear physics for an anticipated appointment beginning Fall 2009. We seek an outstanding scientist, an intellectual leader in the field who is interested in joining one of the top nuclear physics groups in the US. A commitment to excellence in teaching at the undergraduate and graduate level is essential. Current research activities of the group include high energy spin physics, hadron structure studies with neutrinos and polarized protons, neutrino oscillation physics, spectroscopy of exotic hadrons, fundamental neutron physics, and several electric dipole moment searches. We expect the successful candidate will expand our research in new directions, and applications from all areas of nuclear physics are welcome. The experimental nuclear physics group is a key part of the Indiana University Cyclotron Facility (IUCF), a multipurpose laboratory which conducts and supports basic research in nuclear physics, nuclear chemistry, accelerator physics, condensed matter and the life sciences.

Interested candidates are encouraged to contact Professor Mike Snow at wsnow@indiana.edu or (812)-855-7914, and to submit a letter of application, current curriculum vitae and arrange for submission of a minimum of six letters of reference to Joni Beatrice at physsrch@indiana.edu (or by mail to Professor Mike Snow, Faculty Search, Department of Physics, 727 E. 3rd St., Bloomington, IN, 47405-7105). Review of applications will begin December 1, 2008, and will continue until the position is filled. Further information about the IU Physics Department and IUCF can be found at <http://www.physics.indiana.edu> and <http://www.iucf.indiana.edu>.

Indiana University is an Affirmative Action, Equal Opportunity Employer committed to excellence through diversity. The University actively encourages applications of women, minorities, and persons with disabilities.

Tenure Stream Faculty Position Experimental High Energy Physics Michigan State University

The Department of Physics and Astronomy at Michigan State University invites applicants for a tenure stream assistant professor position in experimental high energy physics. We expect to fill the position at the assistant professor level although a more senior appointment may be considered for exceptional individuals.

Candidates should have post-doctoral experience, a clear record of research achievement and a strong interest in teaching. The successful applicant will be expected to participate in preparations for physics analysis involving the ATLAS detector at the Large Hadron Collider now being commissioned at CERN. Applicants should submit a resume, including a one-page statement of research interests, a list of publications, and the names and addresses of three references to **Prof. Raymond Brock, Search Committee Chair, Department of Physics and Astronomy, 4208 Biomedical Physical Sciences Building, Michigan State University, East Lansing, MI 48824-2320** (hepfacsearch@pa.msu.edu).

Review of applicants will begin on November 15, 2008 and continue until the position is filled.

MSU is an affirmative action, equal opportunity employer

MSU is committed to achieving excellence through cultural diversity. The university actively encourages applications and/or nominations of women, persons of color, veterans and persons with disabilities.

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THE UNIVERSITY OF MISSISSIPPI

High energy theory

The Department of Physics and Astronomy at The University of Mississippi invites applications for a two year postdoctoral position in high energy theory beginning in the Fall of 2009.

Job Responsibilities: the high energy theory group currently includes one full-time faculty member (Dr Alakabha Datta). The interest of the group is high energy phenomenology. All applicants working in phenomenology are encouraged to apply though preference may be given to applicants working in flavor physics. The physics and astronomy department at the University of Mississippi also has a very active experimental high energy physics group and a gravitational group. The candidate is expected and encouraged to interact with the high energy experimental and the gravitational groups. **Qualifications/Skills:** the candidate should have a PhD in high energy theory. The candidate should have a clear sense of initiative, motivation, and have excellent communication skills.

The search committee will begin reviewing applications immediately. Review of applications will continue until the position is filled or an adequate applicant pool is established.

We require three reference letters.

Applicants should apply online at <http://www.olemiss.edu/depts/HR/> where a CV and statement of research interests should be posted.

The reference letters can be sent directly to Alakabha Datta at datta@olemiss.edu or submitted at the HR website provided.

The University of Mississippi is an EEO/AA/Title VI/Title IX/Section 504/ADA/ADEA employer.

Research Scientist for Hadron Physics, one position for an experienced experimental physicist. Starting April 01, 2009.

The successful applicant is expected to take an integral role in hadron physics, a collaborative work to understand the origin of the hadron mass, J-PARC E15 experiment 1), and also responsible for the future project of the laboratory 2).

In principle, this is a tenured fulltime position (mandatory retirement at age 60). However, depending on the screening results, the successful candidate may be offered a five-year contract as a fixed term employee with provision for a transfer to a tenured position upon a successful review to be held at the end of the first 3 years. If hired as a fixed-term contract employee, annual salary and work conditions will conform to those for a tenured employee.

* Commuting and housing allowances will be paid and social security premiums will be deducted.

* Days off: Saturdays and Sundays, national holidays, Year-end holidays (Dec. 29-Jan. 3), and RIKEN Founding Day.

* All other provisions will conform to RIKEN's rules and regulations.

* The successful candidate will be eligible to be exempted from the repayment of JASSO loans (Japan Student Services Organization).

More information can be found in:

<http://www.riken.jp/eng/r-world/info/re-cruit/081120.html>

1) http://j-parc.jp/NuclPart/pac_0606/pdf/p15-lwasaki.pdf

2) http://j-parc.jp/NuclPart/pac_0801/pdf/LOI-lwasaki.pdf

Contact and submission address:

RIKEN Nishina Center for Accelerator-Based Science, Advanced Meson Science Laboratory, RIKEN, 2-1 Hirosawa, Wako-shi, Saitama 351-0198, JAPAN
Masahiko Iwasaki
Tel: +81-48-467-9352
E-mail: advanced_meson@riken.jp

Deadline on 20/11/2008



UNIVERSITÉ
DE GENÈVE

FACULTY POSITION IN COSMOLOGY

(MER) - GENEVA, SWITZERLAND

This is a permanent fulltime position with 4 hours of teaching per week. The candidate should pursue a vigorous research program in cosmology. More precisely she/he should work on the problem of dark energy considering as well its theoretical aspects as also methods for experimental investigations of dark energy. The candidate is expected to participate in the supervision of graduate students and teaching on all levels.

Applications have to be sent to **Prof. Ruth DURRER**, DPT, Université de Genève, 24, quai Ernest Ansermet, CH-1211 Genève 4, Suisse.

Additional information can be obtained from ruth.durrer@unige.ch.



UPPSALA
UNIVERSITET

Chair in Nuclear Physics with specialization in Experimental Hadron Physics

at the Department of Physics and Astronomy, Uppsala University.

Nature of duties: General responsibility for research and research education in Nuclear Physics, supervision at postgraduate level and teaching at all levels are required. The research is intended to be focused on the subfield of nuclear physics referred to as Experimental Hadron Physics. Today the research within the programme is conducted at the facilities PANDA at FAIR and WASA at COSY. Participation in planning of research projects as well as dissemination of information about research and development in the research field, are also included in the assignment. Administrative duties and leadership may be relevant.

For further information about the position please contact Professor Ulf Danielsson, e-mail Ulf.Danielsson@fysast.uu.se, phone +46 18 471 3299.

A full advertisement with information about how to apply can be found at <http://www.personalavd.uu.se/ledigaplats/engindex.html>.

Closing date for acceptance of application is **December 18, 2008**.

www.uu.se

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NATIONAL TAIWAN UNIVERSITY
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Distinguished Junior Fellowship

The Leung Center for Cosmology and Particle Astrophysics (LeCosPA) of National Taiwan University is pleased to announce the availability of several post-doctoral or Assistant Fellow (assistant professor equivalent) positions in theoretical and experimental cosmology and particle astrophysics, depending on the seniority and qualification of the candidate. Candidates with exceeding qualification will be further offered as LeCosPA Distinguished Junior Fellows with competitive salary.

LeCosPA was founded in 2007 with the aspiration of contributing to cosmology and particle astrophysics in Asia and the world. Its theoretical studies include dark energy, dark matter, large-scale structure, cosmic neutrinos, and quantum gravity. The experimental projects range from CMB detection in Hawaii, GZK-neutrino detection in Antarctica, to a micro-satellite GRB telescope, POET.

These positions are available August 1, 2009. Interested applicant should email his/her application with curriculum vitae, research statement, publication list and three letters of recommendation before December 31, 2008 to

Ms. Hui-Chung (Maggie) Wang
hcwang@phys.ntu.edu.tw

Three letters of recommendation should be addressed to

Prof. Pisin Chen, Director
Leung Center for Cosmology and Particle Astrophysics
National Taiwan University

For information about classified advertising in

CERN Courier, contact Moo Ali:

Tel +44 (0)117 9301264, e-mail moo.ali@iop.org.



CERN, founded in 1954 in Geneva, is the world's most advanced fundamental research institute for particle physics. Over the last 50 years, it has become a prime example of international collaboration with currently 20 European Member States.

The Electrical Engineering Group (EL) of the Technical Support Department (TS) has the mandate to design, procure and operate CERN's electrical power distribution networks. The CERN electrical networks, supplied by 130 kV and 400 kV lines respectively from Switzerland and France, provide electrical power to a number of high-energy particle accelerators, large scale experimental areas, the Organization's computer centre and many office buildings on the various sites. The installed electrical power at the 18 kV level is rated at approximately 500 MVA. CERN is currently looking for a

Senior Electrical Engineer

Electrical power distribution

to **lead the Electrical Engineering Group** (Reference: TS-EL-2008-15-LD)

as well as other

(Senior) Electrical Engineers.

We offer a limited duration contract for a period of 4 years. Its holder may be subsequently considered for the award of an indefinite contract or an extension of the limited duration contract may be granted. CERN is an equal opportunities employer offering challenging work, competitive tax-free salaries, relocation package (where applicable) and comprehensive social benefits in a stimulating environment.

For detailed descriptions of the above vacancies and the application procedure please refer to our website <https://ert.cern.ch>.

You can also obtain additional information by contacting the responsible Human Resources Advisor: michael.dorn@cern.ch.



Technical coordinator for "in-kind" contributions (f/m)

Establishing and coordinating the follow-up procedures to monitor the progress of the international "in-kind" contributions to the European XFEL project

The European XFEL will receive substantial contributions from its international partners in the form of contributions "in-kind." These contributions will be manifold: hardware equipment, expert manpower, software. They cover all areas of the European XFEL facility: the accelerator (e.g. cryostats for superconducting cavities, electromagnets, radio-frequency systems, several kilometers of vacuum systems), the undulator beam lines (long permanent magnet devices), the X-ray beam transport lines and the scientific instrumentation.

The technical coordinator for in-kind contributions is expected to assist the European XFEL management in the following areas:

- Preparation and establishing the tools for a close follow-up of the technical progress at the various in-kind contributions
- Monitoring of the technical progress of the in-kind contributions by holding reviews and reporting to the management and associated committees
- Support of the development and enforcement of engineering standards to ensure the correct interfacing of different in-kind contributions

The technical coordinator for in-kind contributions will provide a liaison between the in-kind contributor and the European XFEL management team in all technical areas. We are looking for a person with demonstrated capabilities in the coordination of large-scale technical projects. The candidate should have several years of experience in either mechanical or electronic engineering (degree in engineering) and/or with the coordination of large-scale scientific projects (degree in natural sciences). Knowledge in the area of accelerator technology and/or X-ray beam transport systems would be of advantage but are not mandatory. Experience with management tools for project progress control is required. Good communication and management skills, ability to work in a team and fluent English are expected.

Flexible work schemes are in operation. Handicapped persons will be given preference to other equally qualified applicants. Employment is based on equal opportunity and applications from women are encouraged. There is an English-speaking Kindergarten on the DESY site.

For additional information contact Andreas.Schwarz@xfel.eu

Reference of application E-006

Duration 2.5 years

The contract will initially be made for a fixed duration of two and a half years.

An extension of the contract duration will become possible after the formation of the European XFEL GmbH that is planned to take place in 2008. In the case of excellent performance, the possibility to convert the position to a permanent one exists in principle, once the European XFEL GmbH has been founded.

Application If you are interested in this position, please provide an application letter, a CV and the names of three people whom we could ask for a letter of reference. Proceed as described on www.xfel.eu/XFELjobs/en/application.

Deadline for application 31 December 2008

European XFEL Project Team c/o DESY
Notkestr. 85, D-22607 Hamburg, Germany

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