

Recruitment

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Senior and Junior Researchers, Postdoctoral research assistants,
PhD students, Engineers, Physicists and Technicians at
**Extreme Light Infrastructure –
Nuclear Physics (ELI-NP)**



Extreme Light Infrastructure – Nuclear Physics (ELI-NP) will be a new Center for Scientific Research to be built by the National Institute of Physics and Nuclear Engineering (IFIN-HH) in Bucharest-Magurele, Romania.

ELI-NP is a complex facility which will host two state-of-the-art machines of high performances:

- A very high intensity laser beams from two 10 PW lasers;
- A very intense, brilliant γ beam, very low bandwidth, with $E_\gamma > 19$ MeV, which is obtained by incoherent Compton back scattering of a laser light off an intense electron beam ($E_e > 700$ MeV) produced by a warm linac.

IFIN-HH - ELI-NP is organizing competitions for filling the following positions:

Senior and Junior Researchers, Postdoctoral research assistants, PhD students, Engineers/Physicists (particle accelerators, mechanics, optics), Engineers (physics, laser, electronic, electrical, electrotechnical, instrumentation and control) and Technicians.

The jobs description, the Candidate's profiles and the Rules of Procedures of Selection can be found at <http://www.eli-np.ro/jobs.php>.

The applications shall be accompanied by the documents required in the Rules and Procedures of Selection for these positions

The applications shall be sent to the Human Resources Department at human.resources@eli-np.ro.

Fully-funded PhD studentships

at the Cockcroft Institute of Accelerator Science and Technology



The Cockcroft Institute – a collaboration between academia, national laboratories, and industry based in the north west of England – brings together the best particle accelerator scientists, engineers, educators and industrialists to conceive, design, construct and use particle accelerators at all scales and lead the UK's participation in flagship international experiments.

Students will join an internationally leading education program with 40+ PhD students at the Cockcroft Institute. Students will be placed in one of the partner universities (Lancaster, Liverpool or Manchester) in either Physics or Engineering departments, depending on the applicant's aptitude, preference and suitability to the posts.

PhD places are currently available at the Cockcroft Institute in:

- RF Science and Engineering
- Particle Tracking and Beam Dynamics
- Mathematical Physics
- Beam diagnostics and instrumentation
- Photonics and Metamaterials
- Laser applications in accelerators
- Antimatter and Dark Matter research
- Current and Future Particle Colliders (inc. LHC)
- Next generation light source facilities

More details and application forms can be found at:
<http://www.cockcroft.ac.uk/education/informationPhd.htm>
Queries can be sent to Dr G. Burt.
Email: graeme.burt@cockcroft.ac.uk

Prospective students should forward a CV and supporting materials to: Janis Davidson,
Email: janis.davidson@stfc.ac.uk
Closing date for applications: 27th February, 2015





PARTICLE PHYSICS.

**DESY, Hamburg location, is seeking:
Scientist (f/m)**

DESY

DESY is one of the world's leading research centres for photon science, particle and astroparticle physics as well as accelerator 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. The experimental programme is enhanced by collaboration with a strong theory group. DESY is searching an experienced experimental particle physicist, who will initiate a program on searches for new phenomena in the ATLAS group and coordinate the DESY contributions to the operation of the semiconductor tracker (SCT).

The position

- Active role in the ATLAS experiment
- Leading role in searches for new phenomena (SUSY/exotica)
- Contributions to the operation of the SCT
- Participation in the supervision of students and postdocs

Requirements

- PhD in experimental High Energy Physics
- Extensive knowledge in data analysis at hadron colliders, preferentially in searches for new particles
- Expertise in HEP experiments
- Outstanding teamwork abilities
- Excellent communication skills and knowledge of English

For further information please contact Dr. Klaus Moenig +49-337627-7271, klaus.moenig@desy.de, or Dr. Ingrid Gregor +49-40-8998-3032, ingrid.gregor@desy.de.

Salary and benefits are commensurate with those of public service organisations in Germany. Classification is based upon qualifications and assigned duties. 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 kindergarten on the DESY site.

Please send your application quoting the reference code, also by E-Mail to:

Deutsches Elektronen-Synchrotron DESY

Human Resources Department | Code: EM019/2015

Notkestraße 85 | 22607 Hamburg | Germany | Phone: +49 40 8998-3392 |

E-Mail: recruitment@desy.de

Deadline for applications: 15 April 2015

www.desy.de

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



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Users Relations Senior Officer - Accelerators Instrumentation €40-50K p.a full-time permanent position

The Users relations senior officer:

- Assists users in designing beam instrumentation systems;
- Advises them during the initial phase of installation to optimize performance;
- Collaborates actively with institutes to develop new types of beam diagnostics; currently CERN, GSI, LBL, PSI.
- Co-authors and presents papers on achievements at workshops and conferences;
- Operates at a senior level to identify future needs of the accelerator instrumentation community;
- Interacts with our company R&D team to design future instruments;
- Travels to conferences and in situ assistance to users as required in Asia, North America and Europe.

Skills & experience

Fluency in Chinese, a working knowledge of French are big pluses. PhD in physics or engineering degree required. Deep practical knowledge of many accelerator types.

Bergoz Instrumentation has been an active player in accelerator instrumentation for many years, having developed and selling beam DCCTs, ICTs, BLMs, wideband FCT, BPMs electronics.

Located in Saint Genis Pouilly, France, Geneva Lake area, 1-hour drive to the Alps, 17-km to Geneva opera house or Lake sailing, ski and snow 5 minutes away.

Julien Bergoz (Mr.)
Bergoz Instrumentation
Espace Allondon Ouest
01630 Saint Genis Pouilly, France
bergoz@bergoz.com



European XFEL SEIZE THE CHANCE

European XFEL is a multi-national non-profit company that is currently building an X-ray free-electron laser facility that will open up new areas of scientific research. When this facility is completed in 2015, its ultrashort X-ray flashes and unique research opportunities will attract scientists from all over the world to conduct ground-breaking experiments. We are a rapidly growing team made of people from more than 20 countries. Join us now!

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Find out more about our exciting opportunities for scientists, engineers and graduate students. Help develop X-ray instrumentation and other systems. Help create a research facility of superlatives that will provide X-rays of unique quality for cutting-edge research in physics, chemistry, the life sciences and materials science.

WORKING AT EUROPEAN XFEL

English is the working language. We offer salary and benefits similar to those of public service organisations in Germany, a free-of-charge company pension scheme, generous relocation package and support, international allowance for non-German candidates hired from abroad, training opportunities etc.

JOIN OUR NETWORK

Join our network of international research institutions, programmes and collaborations. Discuss problems and solutions with colleagues from all over the world.

COME TO HAMBURG

Economically and culturally, Hamburg is the centre of Northern Germany. With its long history in trade, Hamburg has always been an outward-looking city and one of Germany's gateways to the world. Work and live in Hamburg, one of the most beautiful and interesting cities in Europe!

European XFEL GmbH, Albert-Einstein-Ring 19, 22761 Hamburg, Germany
Mailing address: Notkestr. 85, 22607 Hamburg, Germany

www.xfel.eu

Cardiff University

School of Physics & Astronomy

Postgraduate Opportunities



As the only Russell Group physics department in Wales, Cardiff University School of Physics and Astronomy prides itself on the quality of its postgraduate teaching and research. The School was recently ranked 6th on quality in the UK in the 2014 Research Excellence Framework (REF). Following significant investment and expansion, our world-class research base continues to grow and diversify.

We offer the following postgraduate opportunities:

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Astronomy & Astrophysics

Gravitational Physics

Musical Acoustics

Taught Master's Programmes

MSc Physics

MSc Astrophysics

MSc Biophotonics



For more information email admissions@astro.cardiff.ac.uk

www.astro.cardiff.ac.uk



Accelerators | Photon Science | Particle Physics

Deutsches Elektronen-Synchrotron
A Research Centre of the Helmholtz Association



PARTICLE PHYSICS.

DESY has openings for: DESY-Fellowships (f/m)

DESY

DESY is one of the world's leading research centres for photon science, particle and astroparticle physics as well as accelerator physics.

DESY develops, runs and uses accelerators and detectors for the investigation of the structure of matter.

The position

Fellows in experimental particle physics are invited to participate in a project of DESY's particle physics research programme.

- Analysis and detector-upgrade in the LHC experiments ATLAS and CMS
- Preparation of the International Linear Collider ILC (accelerator and experiments)
- Cooperation in the Analysis Centre of the Helmholtz Alliance "Physics at the Terascale"
- Participation in experiments like ALPS and BELLE II
- Generic development of detectors and accelerators for applications in particle physics

Requirements

- Ph.D. completed within the last 4 years
- Experience in experimental particle physics

DESY-Fellowships are awarded for a duration of 2 years with the possibility of prolongation by one additional year.

Please submit your application including a resume and the usual documents (detailed curriculum vitae including a short summary of past and future research activities, list of publications and copies of university degrees) to the DESY human resources department. Please arrange for three letters of reference to be sent before the application deadline to the DESY human resource department.

Salary and benefits are commensurate with those of public service organisations in Germany. Classification is based upon qualifications and assigned duties. 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 kindergarten on the DESY site.

Please send your application quoting the reference code, also by E-Mail to:

Deutsches Elektronen-Synchrotron DESY

Human Resources Department | Code: EM001/2015

Notkestraße 85 | 22607 Hamburg | Germany | Phone: +49 40 8998-3392 |

E-Mail: recruitment@desy.de

Deadline for applications: 31 March 2015

www.desy.de

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



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The Paul Scherrer Institute PSI is the largest research centre for natural and engineering sciences within Switzerland. We perform cutting-edge research in the fields of matter and materials, energy and environment and human health. By performing fundamental and applied research, we work on sustainable solutions for major challenges facing society, science and economy. PSI is committed to the training of future generations. Therefore about one quarter of our staff are post-docs, post-graduates or apprentices. Altogether PSI employs 1900 people.

For the use at the beamlines of the Swiss Light Source (SLS) - one of the most advanced radiation sources worldwide – and for use at future X-ray free electron laser (XFEL) facilities the Detector Group develops one- and two dimensional high speed solid state detectors.

In this respect, the SLS Detector Group is seeking a

Physicist

Detector Development Swiss Light Source

Your tasks

- Development and characterization of analogue and single photon counting systems (hardware and software) for use at synchrotrons and future XFEL facilities
- Improvement of currently existing systems
- Support of the detector systems and participation in x-ray experiments

Your profile

You should have a PhD in physics preferably in the field of detector development and longtime experience in detector development for synchrotrons. You have good knowledge of analogue and digital electronics and sensors for solid state detectors. Experience in C/C++ programming under linux, FPGA development using VHDL and experience in synchrotron radiation instrumentation would be appreciated.

You will work as a teamplayer in a stimulating international environment, giving you excellent opportunities for new initiatives and independent research.

We offer

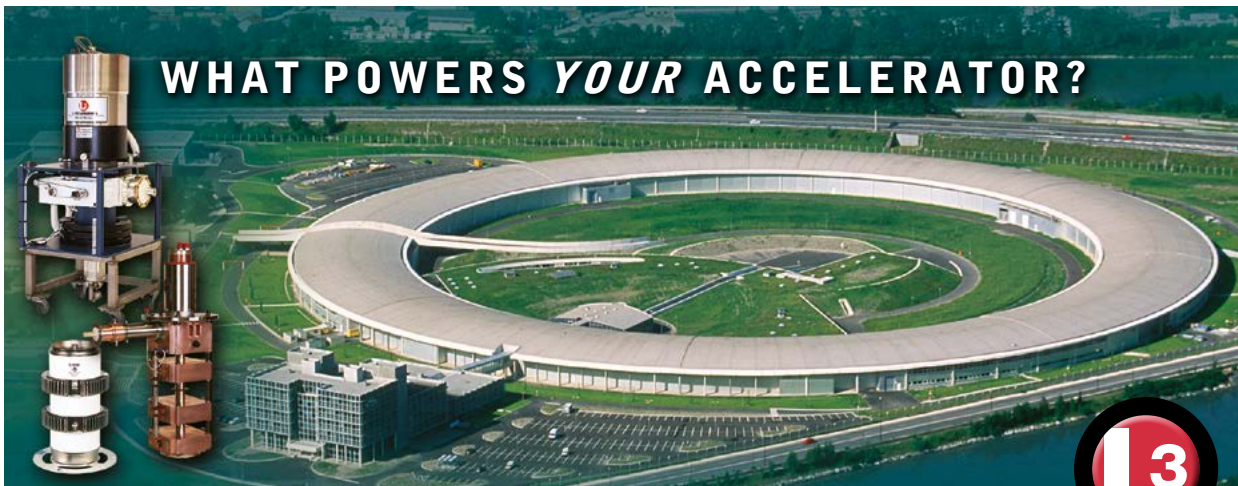
Our institution is based on an interdisciplinary, innovative and dynamic collaboration. You will profit from a systematic training on the job, in addition to personal development possibilities and our pronounced vocational training culture. If you wish to optimally combine work and family life or other personal interests, we are able to support you with our modern employment conditions and the on-site infrastructure.

For further information please contact Dr Bernd Schmitt, phone +41 56 310 23 14.

Please submit your application online (including list of publications and addresses of referees) for the position as a Physicist (index no. 6114-00).

Paul Scherrer Institute, Human Resources Management, Elke Baumann, 5232 Villigen
PSI, Switzerland
www.psi.ch

WHAT POWERS *YOUR* ACCELERATOR?



HV and RF Technology Innovations from L-3

L-3 Electron Devices is leading the technology revolution with powerful solutions like the 13 kW klystron for the 12 GeV Upgrade at the Thomas Jefferson National Accelerator Facility and the 90 kW IOT amplifier for Brookhaven National Lab's NSLS-II Booster RF Transmitter System. For high-voltage switching or stable and reliable RF power, L-3's thyratrons, klystrons, IOTs and TWTs are meeting the demanding requirements of many of the world's major accelerator systems, and we are working to produce the next generation of devices for tomorrow's new accelerators.

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Electron Devices

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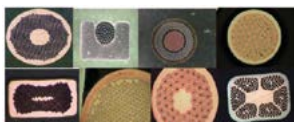
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Standard SC Wire Types

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- Aluminum clad wire
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- Innovative composite wires

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- Nuclear Magnetic Resonance
- High Energy Physics
- SC Magnetic Energy Storage
- Medical Therapeutic Devices
- Superconducting Magnets and Coils
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4 COMPLETE SOLUTIONS

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- Precision current measuring transducers with closed-loop current transformer technology (Zero Flux technology)
- Galvanic isolation between primary and secondary conductor
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- High Modularity and Extreme Configurability
- Ethernet Connectivity
- Firmware Remote Update



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- Beamline Electronic Instrumentation
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