

Recruitment

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National
Institute for
Subatomic Physics

Nikhef

NIKHEF INVITES APPLICATIONS FOR
senior researcher positions on experimental particle physics
in ATLAS and
in LHCb with focus on detector development

Nikhef is the Dutch institute for subatomic physics in Amsterdam hosting approximately 175 physicists and 75 technical staff members in an open and international scientific environment.

The Nikhef groups have strong involvements in the ATLAS and LHCb collaborations at CERN's large hadron collider. Candidates are expected to have several years of postdoctoral experience and take a leading role in international collaborations and in the scientific staff of Nikhef. We have an open position for a candidate to work on data analysis and detector contributions in ATLAS and for a candidate to work on detector hardware physics in LHCb. For both positions the applicant is expected to have proven experience in supervision of postdocs and/or students and to have good communication skills.

The **ATLAS** candidate is expected to lead a high-profile data analysis effort and to take responsibilities in ongoing upgrade activities. The Nikhef ATLAS group has a strong track record in data analysis on Higgs and top quark decays, as well as searches for dark matter, supersymmetry and lepton flavor violation.

Further information on this position can be obtained from prof. dr. Wouter Verkerke (Verkerke@nikhef.nl).

The **LHCb** candidate is expected to work on advanced particle detector systems and have extensive knowledge on particle detection technology. The Nikhef LHCb group has strong involvements in the construction of the upgrade VELO pixel detector and the scintillating fiber tracker.

Further information on this position can be obtained from prof. dr. Marcel Merk (Marcel.Merk@nikhef.nl).

For more information and applications, please consult the Nikhef portal www.nikhef.nl/en/vacancies/

The deadline for applications is 11 Februari 2018.

All qualified individuals are encouraged to apply.

We announce the opening of a full professor position

PROFESSORSHIP (W3) IN THEORETICAL PARTICLE PHYSICS

in the Physikalisches Institut of the Department of Physics and Astronomy of the Faculty of Mathematics and Natural Sciences at the University of Bonn.

Candidates should have an outstanding research profile in theoretical elementary particle physics. This position forms a bridge between mathematical physics and more phenomenological particle and astroparticle physics. Possible areas of research are: beyond the Standard Model physics, astroparticle physics and cosmology, as well as formal aspects of theoretical particle physics. The successful candidate is expected to play a leading role in the excellence cluster proposal "Computational Sciences for Complex Systems (CASCADE)", and to take over the directorship of the Bethe Center for Theoretical Physics.

Teaching according to state regulations is mandatory.

Formal requirements are regulated by § 36 HG NRW. The University of Bonn is an Equal Opportunity Employer.

Applicants are invited to send the usual documents (curriculum vitae, summary of research interests, list of publications, copies of all university certificates) until 15.02.2018 electronically to the Chairperson of the Department of Physics and Astronomy: fachgruppe@physik-astro.uni-bonn.de.

PhD Excellence Fellowships



University
of Basel

Department
of Physics

at the
**Department of Physics,
University of Basel, Switzerland**

The PhD School "Quantum Computing and Quantum Technologies" (QCQT) of the Physics Department (<https://physik.unibas.ch/>), University of Basel, is announcing several PhD excellence fellowships. We are looking for outstanding candidates with MSc degree in quantum science (or related field). Applications are accepted at any time throughout the year; the selection committee will evaluate candidates and award fellowships four times per year, after **deadlines set for April 1st, July 1st, October 1st and January 1st**. The Excellence Fellowships provide full funding for up to four years to complete a PhD thesis. The official language of the PhD School program is English.

The QCQT PhD school brings together over 13 research groups from both **theoretical and experimental quantum science and quantum technology at the University of Basel** and EUROC – the European campus. Together, we are offering an excellent graduate program covering basic courses, advances seminars, summer/winter schools and workshops, performing research at the forefront of quantum science and quantum technology. Further, the program also provides soft skill courses, industry contacts, and an international, interdisciplinary and thriving environment in strong exchange with partner programs and centers such as the NCCR QSIT. We are aiming at attracting outstanding PhD students from in- and outside of Switzerland and providing training at the forefront of QCQT research.

The main areas of research are quantum computing, quantum measurements, spintronics and quantum magnonics, quantum sensing, quantum optics and cold atoms, quantum transport and nanoelectronics, topological properties of condensed matter systems, and quantum communication. To learn more about each of our research groups please visit our website (<https://phdschoolqcqt.unibas.ch/en/people/>).

To apply for an excellence fellowship, submit the following via the online-portal (<https://academicjobsonline.org/ajo/jobs/9444>)

1. Curriculum vitae.
2. Official transcripts MSc, BSc, diplomas etc. with grades, from all relevant institutions of higher education (all in English or German).
3. Statement of objectives/Motivational letter. A short statement of your research interests and how they relate to the work of our department. To increase your chances to be accepted to the PhD school, we encourage you to contact one of the professors of our department and secure their support for your application.
4. List of publications, if available.
5. One to three recommendation letters. The referees should upload their recommendation letters directly to the portal. It is your responsibility to contact your referees and to check that the recommendation letters are uploaded before the deadline.
6. Masters thesis (pdf).

Please address your questions to Dr. Thilo Glatzel: thilo.glatzel@unibas.ch



GEORG-AUGUST-UNIVERSITÄT
GÖTTINGEN

The Collaborative Research Center CRC 1073 "Atomic scale control of energy conversion" at the Georg-August Universität Göttingen and collaborating institutions invite applications for a PhD Position (Salary group 13TV-L, at least 50 %, i.e. 19.9 h/week) in project B03 "Relaxation, thermalization, transport and condensation in highly excited solids". The position will start at the earliest by April 1st 2018 and is limited to three years.

You will drive research in fundamental mechanisms of energy conversion in complex materials down to the atomic scale. You will work in a team of highly motivated researchers from different scientific disciplines and contribute to the development of an improved microscopic understanding of elementary steps of energy conversion in materials with tunable excitations and interactions. You are expected to participate in the structured doctoral program of the

CRC and to enjoy an intense collaboration with the other PhD students of the collaborative research center. For further detailed information, please refer to our website: www.sfb1073.uni-goettingen.de. In your application, please mention explicitly the project B03 (group Manmana, Institute for Theoretical Physics). We are looking for excellent PhD candidates with an above-average university degree in physics or theoretical physics. You know English very well both in writing and speaking. Good German language skills are desirable. You are enthusiastic about the subject and interested in understanding scientific mechanisms in detail. You like developing codes and numerical approaches to Theoretical Physics. You are a team-worker and you possibly possess the appropriate prior knowledge in quantum many-body theory or programming. Please send your application either in electronic form or via mail – only in copies – by 31 January 2018 to the Georg-August-Universität Göttingen, SFB 1073 – Office, Friedrich-Hund-Platz 1, 37077 Göttingen, eMail: SFB1073@ump.gwdg.de.

brightrecruits.com



The jobs site for physics and engineering

Accelerators | Photon Science | Particle Physics
 Deutsches Elektronen-Synchrotron
 A Research Centre of the Helmholtz Association



ACCELERATOR PHYSICS.

**DESY has openings for:
 Director (f/m) for Accelerators
 (successor of R. Brinkmann)**

DESY

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

The position

The Director for Accelerators leads the Machine (M-) Division with about 600 scientists, engineers and technicians and will - as a member of the Board of Directors - decisively take part in shaping the overall laboratory strategy and its execution. The M-Division is responsible for the operation and development of the PETRA-III, FLASH and European XFEL accelerators and for conducting a worldwide leading R&D program in accelerator physics and technology (ARD).

The Upgrade of FLASH and of PETRA-III towards ultra-low emittance, the preparation of an upgrade of the superconducting XFEL linac as well as the development of advanced high-gradient acceleration concepts for future compact facilities are at the core of DESY's mid- and long-term strategy.

Internationally very well recognized scientists with a record of excellence in the field of accelerator physics and/or technology and who have demonstrated leadership in the environment of a larger scientific laboratory are invited to apply.

Knowledge of the German language would be considered as an advantage.

For further information please contact Helmut Dosch, dosch-office@desy.de.

Salary and benefits are commensurate with those of public service organizations in Germany. Classification is based upon qualifications and assigned duties. Handicapped persons will be given preference to other equally qualified applicants. DESY operates flexible work schemes. DESY is an equal opportunity, affirmative action employer and encourages applications from women. Vacant positions at DESY are in general open to part-time-work. During each application procedure DESY will assess whether the post can be filled with part-time employees.

We are looking forward to your application quoting the reference code preferably via our electronic application System: Online-Application

Deutsches Elektronen-Synchrotron DESY

Human Resources Department | Code: MMA066/2017

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

Email: recruitment@desy.de

Deadline for applications: 28 February 2018

www.desy.de

Accelerators | Photon Science | Particle Physics
 Deutsches Elektronen-Synchrotron
 A Research Centre of the Helmholtz Association



PHOTO INJECTOR.

**DESY, Zeuthen location, is seeking:
 Postdoc (f/m) for the Photo Injector Test
 Facility PITZ in Zeuthen**

DESY

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

The Photo Injector Test Facility PITZ in Zeuthen (near Berlin) develops high brightness electron sources for Free Electron Lasers (FELs) like FLASH and European XFEL. The main focus of the research program at PITZ is on further improvement of pulsed high brightness photo injectors and on developments towards future high brightness CW electron sources. We also work on beam driven plasma acceleration for particle and astroparticle physics.

The position

- Work in one of the world-leading international groups of physicists and engineers for the development of photo injectors
- Perform numerical simulations to support the accelerator R&D program at PITZ or to optimize subcomponents of the photo injector towards applications of high brightness electron beams for FELs and in plasma acceleration experiments
- Development of innovative concepts and techniques for the diagnostics of high-quality electron and laser beams
- Organization of and participation in the shift operation of PITZ for accelerator R&D

Requirements

- Excellent university degree in physics or engineering with PhD
- Extensive experience in beam dynamics simulations with space charge dominated beams as well as in numerical methods
- Very deep knowledge of accelerator physics and accelerator technology
- Very good knowledge of English is required and knowledge of German is of advantage

For further information please contact Dr. Mikhail Krasilnikov, +49-33762-7-7213 or mikhail.krasilnikov@desy.de.

The position is limited to 3 years.

Salary and benefits are commensurate with those of public service organizations in Germany. Classification is based upon qualifications and assigned duties. Handicapped persons will be given preference to other equally qualified applicants. DESY operates flexible work schemes. DESY is an equal opportunity, affirmative action employer and encourages applications from women. Vacant positions at DESY are in general open to part-time-work. During each application procedure DESY will assess whether the post can be filled with part-time employees.

We are looking forward to your application quoting the reference code preferably via our electronic application System: Online-Application

Deutsches Elektronen-Synchrotron DESY

Human Resources Department | Code: MPO003/2017

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

Deadline for applications: 31 January 2018

www.desy.de

A new year. A new opportunity. A new challenge?

CERN has a range of opportunities to work and learn, from its flagship summer student programme to technical, administrative and doctoral studentships, fellowships, the technician training experience, and diverse staff opportunities for professionals.

**Whatever the stage of your career, whatever your field of expertise,
find your opportunity at CERN & take part in 2018!**

Find out more: careers.cern



HR
Human Resources



JOIN US!

The future is in laser technologies

The ELI (Extreme Light Infrastructure) Project is an integral part of the European plan to build the next generation of large research facilities. ELI-Beamlines as a cutting edge laser facility is currently being constructed near Prague, Czech Republic. ELI will be delivering ultra-short, ultra-intense laser pulses lasting typically a few tens of femtoseconds with peak power projected to reach 10 PW. It will make available time synchronized laser beams over a wide range of intensities for multi-disciplinary applications in physics, medicine, biology, material science etc. The high intensities of the laser pulse will be also used for generating secondary sources of e- and p+ and high-energy photons. Our research groups are expanding and recruiting physicists and engineers.

In our team we therefore have the following positions available:

- Junior Scientist
- Senior Scientist
- Laser Physicist
- Junior Engineer
- Senior Engineer
- Vacuum Technician
- Mechanical Designer
- Control System Specialist
- Safety Engineer
- Optical Engineer
- X-ray Scientist
- Opto-mechanics

For more information see our website www.eli-beams.eu and send your application, please.

physicsworld

careers 2018

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physicists and engineers in 2018**

Bursting with careers advice, real-life case studies
and an extensive STEM employer directory
powered by **brightrecruits.com**

Contact us today for a free consultation

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