

Member Governments Endorse Role

The International Institute for Applied Systems Analysis (IIASA) is an international, non-governmental research institute supported, and perhaps more importantly guided, by national scientific bodies (generally science academies). It brings together scientists who collaborate on worldwide projects to provide unbiased, objective policy-oriented research results dealing with issues transcending national boundaries. Specialists, who range from junior scientists to experienced senior colleagues, spend on average about 1-2 years at the institute, which is based a castle provided by the Austrian government called

The International Institute for Applied Systems Analysis is based at Schloss Laxenburg.

Schloss Laxenburg in the small town of the same name just outside Vienna.

There are currently about 200 staff, including some 90 resident scientists who are working on 15 projects covered by a budget of 150 MAT, two-thirds of which represents contributions from 17 member organizations and the remainder is project financing. The former Soviet Union and the USA played a leading role with each contributing some



22 MAT annually, as compared with 8 MAT for west European countries and Japan and 4 MAT for east and central European countries. The two main contributors also shared the senior appointments (P.E. de Jánosi, the

FACULTY OF PHYSICS AND ASTRONOMY

At the Faculty of Physics and Astronomy it is possible to major in seven subjects, one of which is Technical Physics. Emphasis is put on the quality of teaching and on good supervision. The (international) research carried out guarantees an academic training. The main areas of

research are: optical physics, materials science, statistical physics, (theoretical) high-energy physics and astrophysics. The faculty has about 350 students and 300 employees. The department of Experimental Physics (Van der Waals-Zeeman Laboratory) has a vacancy for an

EXPERIMENTAL PHYSICIST (DR./DRS./IR.)

as researcher and deputy project manager (M/F), for 38 hours per week 16004/EN



Since 1969, the Universiteit van Amsterdam has a facility for the generation of extremely high magnetic fields at its disposal. At present, this consists of two magnets for magnetic fields up to 30 and 40 tesla. Recently, funds have been granted for the construction of a 60 tesla installation, which will be unique at an international level. In order to realize this new installation, a management team has been established, consisting of a project manager, a deputy manager and a manager in charge of organisation. The management team is supported by a team of highly qualified technicians. Within The Netherlands, the activities of the universities of Amsterdam and Nijmegen in the area of high magnetic fields are combined in the ANML (Amsterdam-Nijmegen Magnet Laboratory).

TASKS: As deputy manager of the project, you are jointly responsible for the realisation and progress of the 60 tesla project. The allocation of tasks in the management team is flexible, on the basis of expertise and affinity. The project manager and deputy manager are at all times fully informed of each others' activities.

REQUIREMENTS: • familiarity with a wide area of experimental physics • Ph.D. or comparative level of knowledge and experience • knowledge of and experience with (most

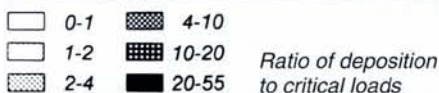
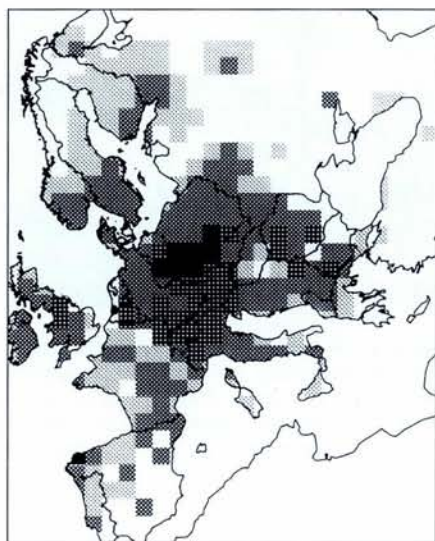
of) the following areas: automation of experiments (software and hardware), cryogenics, research at low temperature, design and management of large installations, power engineering (heavy-current electrotechnology), mechanical engineering (theory of strength of materials, plastic deformation, FE-software).

APPOINTMENT will take place as researcher for the duration of the project (a maximum of five years). However, appointment in a permanent position is not ruled out. The salary amounts to a maximum of Dfl. 7,996.- gross per month, depending on qualifications, age and experience.

FURTHER INFORMATION can be obtained from Prof. Dr. J.J.M. Franse, telephone + 31-20-5255641, or from Dr. P.H. Frings, telephone + 31-20-5255744 (FAX: + 31-20-5255788; E-MAIL: frings@phys.uva.nl).

APPLICATIONS should be made within two weeks, and addressed to the Director of the Faculty of Physics and Astronomy, Dr. W.C.M. Mattens, Valckenierstraat 65, 1018 XE Amsterdam, The Netherlands. Please state vacancy number and "strictly confidential" in the top left-hand corner of the envelope.

In view of the present make-up of the department, women are emphatically invited to apply for this position.



RAINS: A model for negotiations. The figure shows the annual deposition of sulphur in Europe in 1990 assuming no reduction in allowed depositions. The data, generated by IIASA's Regional Acidification Information and Simulation model, was requested by governments negotiating a new protocol to control SO_2 emissions.

present Director now in his second three-year term of office, is an economist who worked for foundations in New York and the IIASA Council is chaired by V.S. Mikhalevich from Kiev). The FSU contribution has been taken over by Russia, and the Ukraine and Kazakhstan have become members.

IIASA served for 22 years as an extremely effective bridge between east and west, but the changed political context clearly called for a reappraisal of its role. A meeting of government representatives on 14 November that was hosted by the Austrian government reaffirmed the member countries' support and endorsed the institute as a centre of excellence carrying out research on global change and its human dimensions, including environmental, social, technological and economic issues. Reorientating the institute's activities rather than a major restructuring was envisaged, with increased efforts on north/south issues, participation in European Union programmes and collaboration with the European Commission's Joint Research Centres. The members urged organizational flexibility, interdisciplinary programmes, rigorous and systematic training opportunities for young scientists, and connections to international scientific networks. But such features will not of themselves provide the necessary support, so the meeting called for a more flexible membership scheme aimed at expanding membership and securing longer-term commitments.

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Contact: P.G. Boswell, EPS Geneva
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UNIVERSITY OF COPENHAGEN

Niels Bohr Institute for Astronomy, Physics and Geophysics Associate Professorship in Theoretical Physics (non-linear methods, complex systems)

An associate professorship in theoretical physics will become available as of April 1, 1995, with special emphasis on the physics of complex systems and the use of non-linear methods in physics.

The successful candidate is expected to take part in shaping the future of the field, whether as an independent subject or as a general tool to be used in other areas of physics and must have a solid background in theoretical physics and demonstrated ability for original research.

An independently financed Centre for Chaos and Turbulence Studies (CATS) is associated with the Institute, the main topics of which are classical chaos, quantum chaos, and dynamics of extended systems (pattern formation, turbulence, interface dynamics). It is expected that the successful candidate will conduct research in close collaboration with the Centre and contribute to one or more of the above mentioned subjects. The Institute in collaboration with CATS has created an experimental group in non-linear phenomena and it is expected that the new associate professor will actively support the close collaboration between theory and experiment.

The chosen candidate is expected to take part in the teaching effort of the Institute at all levels, including supervision of graduate students. The language of instruction for undergraduate courses is Danish, but English will be accepted for the first two years of the appointment.

The applicants' qualifications will be evaluated by a specially appointed Committee, and the entire report of the Evaluation Committee will be sent to all applicants. The Evaluation Committee may ask for supplementary material, which the applicant then must provide in the requested number of copies.

Information about research plans, facilities and staff may be obtained from the Director, Professor Ole Hansen, Niels Bohr Institute for Astronomy, Physics and Geophysics, Blegdamsvej 17, DK-2100 Copenhagen Ø, Denmark; tel: +45 35 32 52 92, fax: +45 35 43 10 87, E-mail: oleh@nbi.dk.

The position will be under a continuing contract as agreed between the Confederation of Professional Unions and the Ministry of Education. The annual salary depends on seniority and ends at a maximum of 326 558 DKK after contributions to the pension scheme.

The application, market "5207 L/16-94" and written in English, must formally be made to the Rector of the University of Copenhagen and mailed to the Faculty of Science, Blegdamsvej 3, DK-2200 Copenhagen N, Denmark. Applications, in order to be considered, must have been received by the Faculty of Science no later than **February 1, 1995**.

Three copies of the application, and in addition three copies of a brief outline of proposed research, should be mailed to the Director of the Niels Bohr Institute for Astronomy, Physics and Geophysics. No further material should be forwarded until requested.

UNIVERSITY OF COPENHAGEN

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The successful candidate is expected to take a leading role in shaping the future of the field, be it as an independent subject or as a general tool to be used in other areas of physics and must have a broad research background in theoretical physics and demonstrated ability for original research at the highest international level.

An independently financed Centre for Chaos and Turbulence Studies (CATS) is associated with the Institute, the main topics of which are classical chaos, quantum chaos, and dynamics of extended systems (pattern formation, turbulence, interface dynamics). It is expected that the new professor will conduct research in close collaboration with the centre and contribute to the cutting edge to one or more of the above-mentioned subjects. The Institute in collaboration with CATS has created an experimental group in non-linear phenomena and it is expected that the new professor will actively support the close collaboration between theory and experiment.

The chosen candidate is expected to take part in the teaching effort of the Institute at all levels, including supervision of graduate students. The language of instruction for undergraduate courses is Danish, but English will be accepted for the first two years of the appointment.

The application must include a *curriculum vitae* and a complete list of publications with a special indication of which publications are considered most relevant for this position. Information about teaching experience must also be enclosed.

The applicants' qualifications will be evaluated by a specially appointed Committee, and the entire report of the Evaluation Committee will be sent to all applicants. The Evaluation Committee may ask for supplementary material, which the applicant then must provide in the requested number of copies.

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The professorship is a tenured position under the Ministry of Education. The annual salary is approximately 410 000 DKR after contributions to the pension scheme.

The application, marked "211-43/94-5207" and written in English, must formally be made to the Rector of the University of Copenhagen and mailed to the Faculty of Science, Blegdamsvej 3, DK-2200 Copenhagen N, Denmark. Applications, in order to be considered, must have been received by the Faculty of Science no later than **February 1, 1995**.

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