The Advanced Research Center for Nanolithography (ARCNL) is a new research center, located at the Amsterdam Science Park.

ARCNL is a public-private partnership between the Foundation for Fundamental Research on Matter (FOM), the University of Amsterdam (UvA), the VU University Amsterdam (VU) and the semiconductor equipment manufacturer ASML. ARCNL focuses on the fundamental physics involved in current and future key technologies in nanolithography, primarily for the semiconductor industry.

During a short, initial phase, ARCNL formally operates as a department of the FOM Institute AMOLF. After this launch, it will be an independent research center, staffed by approximately one hundred scientists and technical support staff. ARCNL is managed under the auspices of the Netherlands Organisation for Scientific Research (NWO).

For its first research groups, ARCNL now invites applications for the positions of PhD students and postdocs in Nanolithography

in the following fields:
- Generation of EUV light through laser-induced plasmas
- Structure, composition and dynamics of EUV producing plasmas
- New targets for the generation of EUV light
- Lensless imaging with EUV light
- Growth of nanolayers (e.g. graphene) and multilayers for EUV optics
- Spectroscopy on EUV emitting plasmas using ultrafast lasers and high-harmonic generation
- Nanophotochemistry for EUV photoresists

ARCNL is seeking candidates trained in experimental physics, chemistry, materials science or engineering with an interest in cutting-edge research, combining fundamental and applied aspects. The selected junior scientists will become members of a new team of 100 ARCNL staff. They will benefit from brand new, state-of-the-art laboratory facilities and research equipment. Research will be carried out in strong partnership with ASML, AMOLF and UvA/VU. Short internships at ASML may be part of each project. After finishing their work at ARCNL, excellent candidates may have a subsequent job perspective at ASML.

ARCNL employees will be under contract with either FOM, UvA or VU, under standard working conditions. PhD positions are for 4 years, postdoc positions for 2 or 3 years.

The deadline for our first round of applications is August 31, 2014.

Descriptions of specific research projects and job openings are posted on the ARCNL website: www.arcnl.nl.
**Appointment of Director of the MRC Human Genetics Unit**

The MRC Human Genetics Unit (HGU) at the University of Edinburgh is at the forefront of research into human genetics and genomics. Funded by the Medical Research Council (MRC) and with a budget of some £50 million over five years, the Unit is fully integrated within the University of Edinburgh’s College of Medicine & Veterinary Medicine. The University of Edinburgh provides a world-leading research environment with major opportunities for interactions and collaborations in human genetics/genomics research.

The current Director of the HGU, Professor Nick Hastie, will stand down in early 2016 and the University and the MRC are seeking to appoint an outstanding scientist and visionary leader to succeed Professor Hastie as Director. The ideal candidate will be an exceptional basic or clinical scientist, with an international reputation and an excellent track record in any area of human genetic/genomic research relevant to the Unit’s mission. The candidate will need to show a clear vision for the future of the Unit, demonstrable leadership and strategic skills, and the ability to forge new partnerships nationally and internationally. Additionally, the new Director will be expected to lead their own internationally competitive programme of research.

This is a senior appointment by the MRC and University of Edinburgh and a competitive salary will be offered and will be negotiable depending on experience. The successful applicant will be employed as a University Professor on University terms and conditions.

Relocation assistance will be provided where appropriate.

Perrett Laver may be contacted for a confidential discussion of the role by contacting Dr Jack Bircher via jack.bircher@perrettлаver.com or +44 (0)207 340 6220. To apply, please visit the Perrett Laver website at www.perrettлаver.com/candidates quoting reference number 1627. The deadline for applications is 9am (BST) on Monday 8th September 2014. Interview date is Friday 12th December 2014 and will be held in Edinburgh.

The University of Edinburgh and the MRC value diversity and are committed to equality of opportunity.

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**FACULTY POSITION IN GENE EXPRESSION AND REGULATION**

The Wistar Institute, an NCI-designated Cancer Center and independent research institute in Philadelphia, is seeking outstanding candidates for faculty positions in the Cancer Center Program in Gene Expression and Regulation. Outstanding candidates at all levels are encouraged to apply to develop or expand extramurally-funded research programs using multidisciplinary approaches to cancer biology and pathogenesis. Specific areas of interest include (but are not limited to) genetic and epigenetic changes in cancer, biochemistry and structural biology of nuclear processes, genomic responses to chemotherapy and drug-resistance, high-throughput functional genetic or chemical biology-based screens for defining the molecular pathogenesis of cancer.

The Wistar Institute, an NCI-designated Cancer Center and independent research institute in Philadelphia, offers highly competitive start-up support packages including salary and fringe benefits, a superb and interactive research environment in a newly constructed state-of-the-art research tower and animal facility, and outstanding core facilities in proteomics, genomics, microscopy, high-throughput molecular screening, bioinformatics, and flow cytometry. Investigators have access to a wide range of clinical materials through a partnership with the Helen F. Graham Cancer Center, Newark, DE. The Institute’s location, near the University of Pennsylvania campus, provides opportunities for academic and clinical collaborations. Graduate students at Philadelphia academic institutions frequently receive training at The Wistar Institute.

Applications will be reviewed as received until the position is filled. To ensure timely consideration, applicants should submit applications before **September 10, 2014**. The application should include: a curriculum vitae, a brief summary of past and future research interests, history of research funding support (if applicable), and three letters of reference. Applications (submitted as a single PDF) should be sent by e-mail to: Paul Lieberman, Search Committee Chair, c/o Maria Colelli (colelli@wistar.org), The Wistar Institute, 3601 Spruce Street, Philadelphia, PA 19104.

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**UNIVERSITY OF MICHIGAN**

**BIOLOGICAL SCIENCES SCHOLARS PROGRAM**

For Junior, Tenure-Track Faculty

The University of Michigan announces recruitment for the Biological Sciences Scholars Program (BSSP) to enhance its investigational strengths in the life sciences research programs. Now entering its 15th year, this Program has led to the recruitment of outstanding scientists in the areas of genetics, microbiology, immunology, virology, structural biology, biochemistry, molecular pharmacology, stem cell biology, cancer biology, physiology, cell and developmental biology, bioinformatics, and the neurosciences. The Program seeks individuals with PhD, MD, or MD/PhD degrees, at least two years of postdoctoral research experience and seeking their first appointment as an assistant professor. Candidates will show evidence of superlative scientific accomplishment and scholarly promise. Successful candidates will be expected to establish a vigorous, externally-funded research program, and to become leaders in departmental and program activities, including teaching at the medical, graduate, and/or undergraduate levels. Primary college and department affiliation will be determined by the applicant’s qualifications and by relevance of the applicant’s research program to departmental initiatives and focus. All faculty recruited via the BSSP will be appointed at the Assistant Professor level.

**APPLICATION INSTRUCTIONS:** Please apply to the Scholars Program through the BSSP website at: http://bssp.med.umich.edu. A curriculum vitae (including bibliography), a three page research plan, an NIH biosketch, and three original letters of support should all be submitted through the BSSP website. More information about the Scholars Program, instructions for applicants and those submitting letters of recommendation, and how to contact us is located on the BSSP web site: http://bssp.med.umich.edu. The deadline for applications is Friday, October 17, 2014.

The University of Michigan is an Affirmative Action/Equal Opportunity Employer.
To Dr. Shirley Malcom, born and raised in the segregated South more than 65 years ago, a career based on her studies in science seemed even less likely than the launch of the Soviet’s Sputnik. But with Sputnik’s success, the Space Race officially started and, in an instant, brought a laser-like focus to science education and ways to deliver a proper response. Not long after, Dr. Malcom entered the picture.

Although black schools at the time received fewer dollars per student and did not have sufficient resources to maintain their labs at a level equivalent to the white schools, Dr. Malcom found her way to the University of Washington where she succeeded in obtaining a B.S. in spite of the difficulties of being an African American woman in the field of science. From there she went on to earn a Ph.D. in ecology from Penn State and held a faculty position at the University of North Carolina, Wilmington.

Dr. Malcom has served at the AAAS in multiple capacities, and is presently Head of the Directorate for Education and Human Resources Programs. Nominated by President Clinton to the National Science Board, she also held a position on his Committee of Advisors on Science and Technology. She is currently a member of the Caltech Board of Trustees, a Regent of Morgan State University, and co-chair of the Gender Advisory Board of the UN Commission on Science and Technology for Development. She has held numerous other positions of distinction and is the principal author of The Double Bind: The Price of Being a Minority Woman in Science.

Of her active career in science, Dr. Malcom says, “I guess I have become a poster child for taking one’s science background and using that in many other ways: we ask questions; we try to understand what we find; we consider what evidence we would need to confirm or refute hypotheses. And that happens in whatever setting one finds oneself.”

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Associate/Full Professor of Radiation Oncology, Tenure-Track

Candidates with evidence of significant extramural funding and a strong publication record in any area of Tumor or Radiation Biology are encouraged to apply. We are particularly interested in individuals with research interests in normal tissue radiobiology, tumor microenvironment or tumor stem cells. The Division of Radiation Research is comprised of 14 faculty engaged in innovative, translational research with a focus on the study of the tumor microenvironment, radiation response modifiers, photodynamic therapy and proton therapy. Research in the Division is supported by multiple grants from the NIH, DoD, NASA, private foundations and industry. Faculty in the Division can have cross-appointments to other Departments and can belong to different graduate groups such as Cell and Molecular Biology and Pharmacology. The majority of the Division faculty are located in new, contiguous laboratory space in the Smilow Center for Translational Research Building (SCTR), in very close proximity to the clinic. State-of-the-art shared instrumentation includes a 3-D conformal irradiator for small animals, live cell microscopy, hypoxia chambers, multiple PDT lasers, etc. The SCTR building has its own barrier and non-barrier animal facility and small animal imaging facilities which include optical, MR and CT imaging.

A competitive start-up package and laboratory space will be provided. For more information about the Department of Radiation Oncology, and the Division of Radiation Research please visit: http://www.xrt.upenn.edu/index.shtml

Interested candidates should send a curriculum vitae, a one page summary of their future research goals and the names of three references, preferably in a single pdf, via the online form. http://www.med.upenn.edu/apps/faculty_ad/index.php/?a3637

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A postdoctoral position in mechanisms of advanced prostate cancer (Chang et al. Cell 2013 154(5):1074–1084) is available in the laboratory of Dr. Nima Sharifi at the Cleveland Clinic (website: https://www.lerner.ccf.org/cancerbio/sharifi/#lab). This position will provide multidisciplinary exposure to tumor metabolism, molecular oncology, and clinical studies. The candidate should send their curriculum vitae and three references to e-mail: sharifn@ccf.org.
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