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The E.U.’s Recipe to Create Jobs: Innovate

Horizon 2020, the European Union’s new funding mechanism, is the concrete translation of Europe 2020, a 10-year strategy proposed by the European Commission to advance Europe’s economy in a “smart, inclusive, and sustainable” way. It reflects the widespread sentiment that Europe has fallen behind the rest of the world in innovation. By supporting areas in which Europe already shows strong competence, especially at the near market stage where crucial funding tends to fall short, the European Union aims to emerge as a world leader in the areas targeted and grow its economy at the same time. Along the way, it is creating new opportunities for scientists. By Gunjan Sinha

This year saw the launch of the European Union’s (E.U.) eagerly anticipated new funding mechanism, Horizon 2020. Between 2014 and 2020, the European Commission will make €78.6 billion (US$99.7 billion) available to fund research and innovation throughout the E.U. The budget is a €25 billion (US$31.7 billion) increase over the E.U.’s previous funding mechanism—the 7th Framework Programme (FP7)—and takes the concept of goal-oriented research several steps beyond its predecessor.

Horizon 2020 is organized into three core themes: excellent science, industrial leadership, and societal challenges. The themes continue many of those introduced under FP7, especially toward the end of FP7’s tenure when it shifted to a challenge-based thematic approach. Horizon 2020, however, in addition to a 60% increase in funding for basic research, goes wholesale on the challenge-based approach, says Michael Jennings, a European Commission spokesperson, and emphasizes developing solutions to the world’s most pressing environmental and societal threats to health and well being.

“There is a demand for science to be more responsive and to address the urgently complex societal challenges of our times,” says Máire Geoghegan-Quinn, European Commissioner for Research Innovation and Science. “As a politician I am evangelical about the power of science to improve and enrich our lives and to sustain our economy.”

The societal challenges pillar secured 38.53% of the budget—the largest chunk of the three—and is further broken down into key themes that include health, forestry, marine research, efficient energy, green transport, climate, and environment. The focus on key themes aims to inspire more multidisciplinary approaches, says Jennings, and encourage researchers to come up with the right approach rather than prescribe it. Since innovation is at the core of Horizon 2020, it also has a goal of 20% small and medium enterprise (SME) participation in all funded projects and will support more late-stage research, such as pilot and demonstration projects.

Implicit in funding such large research consortia are the job opportunities they create for early-career scientists. Large consortia connect researchers around the globe with each other and also with industry, creating a path through which young scientists can move on or up in their careers.

Late-stage funding for sustainable energy

One of the first major Horizon 2020 awards announced in July is a €3.7 billion (US$4.7 billion) commitment to a public-private partnership aiming to develop Europe into a biobased economy. More than 70 European companies in the biotech, chemical, energy, agriculture, and pulp and paper sectors are part of the initiative, which is coordinated by Copenhagen, Denmark-based Novozymes. Of the €3.7 billion, the European Commission will contribute €975 million (US$1.2 billion) between 2014 and 2020; the rest will come from industry partners.

Novozymes is an industrial biotechnology company that produces and sells enzymes and microorganisms used in people’s everyday lives, from processed food and detergents to farming and other industrial processes. As the cost of biotechnology comes down, many chemicals are being replaced with biotech, says Peder Holk Nielsen, president and chief executive officer of Novozymes. The company now produces millions of unique enzyme molecules each month when just a few years ago it could only produce thousands, he explains. “Access to [the technology] is exploding,” he says, which in turn presents a huge opportunity to apply the technology toward a greener economy.

The partnership’s primary focus is to provide a renewable alternative to the fossil-based fuels that power automobiles and are components of industrially produced chemicals and materials such as fabrics and plastics. The company and its partners have already built a biomass refinery in Crescentino, Italy that produces 75 million liters a year of cellulosic ethanol from agricultural waste using the company’s enzymes. The majority of the €3.7 billion will be spent on building at least five additional production plants across... continued>

Upcoming Features

Regional Focus: Asia—December 12  ■  Faculty—January 30, 2015  ■  Postdocs—February 27, 2015
When Fabio Grieco finished his Ph.D., he wanted to work abroad. His advisor suggested taking a fellowship position with Decio Eizirik, another NAIMIT partner at the University of Brussels.

Europe by 2020. “These are essential to show the technical and commercial viability of new generations of biobased products and fuels at an industrial scale and to reduce perceived investment risks,” says Holk Nielsen.

Each plant is expected to generate between 12,000 and 18,000 feedstock supply chain jobs annually, according to a report by National Non-Food Crops Centre, bioeconomy consultants in York, England. The boom in industrial biotechnology is also creating jobs for scientists. Novozymes, for example, is “hiring a lot of people globally,” says Peter Tolstoy, a people and organization partner responsible for hiring scientists at the company, which has 36 global locations and employs some 1,300 scientists.

The Bio-Based Industries (BBI) Consortium is exemplary of the kind of late-stage innovation activities that Horizon 2020 is aiming to fund, not only because of its potential to grow the economy and create jobs, but also because such consortia build relationships between industry and academia that foster innovation. Another key change from FP7 is 5% more funding to support SMEs that typically take university research and turn it into marketable goods. Twenty percent of the budget available for research on societal challenges and leading technologies—almost €9 billion (US$11.4 billion) in grants over seven years—will be available to SMEs. Of this amount, €3 billion (US$3.8 billion) will be provided through a dedicated “SME instrument,” a specific line of calls, to fund feasibility studies and demonstration projects. Part of the E.U. research budget will also be used to back public and private loans to SMEs.

“The €9 billion should be seen as a minimum,” says Geoghegan-Quinn. “SMEs are the backbone of the European economy and account for two thirds of total employment.”

Another consortium with large SME participation working toward greening the economy is LEANWIND (Logistic Efficiencies And Naval architecture for Wind Installations with Novel Developments) headed by Jimmy Murphy, lecturer at Beaufort Research, University College Cork, Ireland.

Securing one of the last awards under FP7, LEANWIND is a consortium of 31 partners from 11 countries, half of which are small companies working toward making wind energy competitive with fossil fuel energy sources. LEANWIND will receive €10 million (US$12.7 million) from the European Commission between 2014 and 2017 to find ways to streamline the installation, management, and maintenance of offshore wind farms. Industry partners will contribute an additional €5 million (US$6.3 million). To cut costs, “there is an entire logistical chain of events that can be optimized,” says Murphy.

For early-career scientists, collaborative research projects that include industry are invaluable for the contacts they provide. Katie Lynch, for example, landed her job as a LEANWIND work package leader after collaborating with Murphy on a related FP7-funded project. While working on that project, the 30 year old Lynch, who has a Master’s degree in renewable energy, was asked to help put together the FP7 proposal for LEANWIND, with the intention that she would work on the project if it were funded. The experience of writing the FP7 proposal and of working in her current position managing finance and market assessments has given her precious experience in leadership, she says, as well as put her in touch with industry leaders “You have to put together a consortium of people with whom you would like to work with over and over again and maintain those contacts,” she says.

Such consortia also build long-term connections between academics and industry, boosting job prospects. “It would be wonderful if it was natural for academics to move to industry and vice versa,” says Geoghegan-Quinn. “In the U.S. this happens all the time. We are setting up the architecture to allow that to happen [here in Europe].”

Basic research not neglected

Even though the societal challenges pillar of Horizon 2020 is goal oriented, basic research can be funded if scientists can show practical relevance. Since Horizon 2020 just launched, there are a several projects funded under FP7 that the European Commission considers exemplary of the type of life science research Horizon 2020 aims to fund.

The Natural Immunomodulators as Novel Immunotherapies for Type I diabetes (NAIMIT) consortium, for example, investigated a controversial theory about diabetes type 1 to come up with new therapies. Composed of 14 academic partners and two biotech companies, the group was brought together by Chantal Mathieu, head of clinical and experimental endocrinology at the University of Leuven, Belgium. Pancreatic beta cells aren’t just “sitting ducks” in the pathogenesis of diabetes, Mathieu explains. “There’s an active dialogue between beta cells and the immune system that mediates beta cell death.” Mathieu brought in partners whom she thought could illuminate this process and develop therapeutic approaches based on it.

It is through NAIMIT that Fabio Grieco landed his current job as a postdoctoral fellow at the Universite Libre de Bruxelles (ULB), Belgium, Laboratory of Experimental Medicine, and ULB Center for Diabetes Research. In 2010, Grieco was working on his Ph.D. at the University of Siena, Italy when his supervisor, Francesco Dotta, began collaborating with Mathieu. When Grieco finished his Ph.D., he wanted to work abroad. His advisor suggested taking a fellowship position with Decio Eizirik, another NAIMIT partner at the University of Brussels. He has been at the center for diabetes research since 2012. Although his fellowship time is up, he has the opportunity to continue his research at the center.

The NAIMIT consortium was funded under continued>
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When Sebastian Rauschert saw that the University of Munich offered a Ph.D. program in early nutrition through The Early Nutrition Project, he jumped at the chance.

FP7 with a total budget of €14.25 million (US$18.08 million), of which the European Union contributed €10.92 million (US$13.8 million). The rest came from participating universities or individual research grants. E.U. funding under FP7 ends this year. Two of the projects, however, have entered the clinic, says Mathieu, and research on a bacterial system to deliver immune modulating compounds systemically described in the group’s 2012 paper “is extremely promising,” she adds.

Another exemplary health project funded under FP7 is The Early Nutrition Project, which includes researchers from 36 institutions in 12 countries across Europe, the United States, and Australia. The project is being coordinated out of Ludwig-Maximilian’s-University in Munich, Germany and aims to understand how early nutrition programming and lifestyle factors impact the rates of obesity and related disorders. Research projects include studying how maternal weight during pregnancy affects the long-term health of babies, how the placenta regulates fetal growth and how early nutrition affects children’s long-term risk of metabolic diseases. The project is funded with €8.96 million (US$11.37 million) from the European Union between 2012 and 2016, with a total budget of €11.12 million (US$14.1 million).

Such large research consortia open up opportunities for young people in other ways too. Sebastian Rauschert studied sociology and psychology as an undergraduate. He then earned a Master’s degree in public health. He has “always been interested in disease prevention and nutrition,” he says. When he saw that the University of Munich offered a Ph.D. program in early nutrition through The Early Nutrition Project, he jumped at the chance. As part of his Ph.D. thesis, he is studying whether breastfeeding influences obesity related metabolic disorders, such as diabetes, by analyzing data from the Western Australian Pregnancy Cohort Study, which has followed over 1,000 babies since 1989. This month Rauschert will travel to Perth to spend six months working directly with his collaborators. The trip is funded through the brain mobility project, established under the Early Nutrition Project to enable young scientists working on the project the opportunity to travel abroad and work with collaborators, and incidentally give them a networking boost.

**E.U. grants carry cache**

For early-career scientists, landing a job with E.U.-funded consortia isn’t the only stepping-stone available. They can apply for individual European Research Council (ERC) grants, which with a budget of €13.1 billion (US$ 16.6 billion), represents a 60% increase over FP7, or a Marie Skłodowska-Curie actions (MSCA) grant, both of which are included under the Excellent Science pillar. MSCA grants are awarded in all scientific disciplines at all stages of researchers’ careers, from Ph.D. candidates to highly experienced researchers.

For those who beat out the competition to win an ERC grant, the job prospects become even brighter. “It’s immediately considered as positive recognition of the quality and ambition of the scientist,” says Jean-Pierre Bourguignon, president of the ERC. “There is competition now among institutions to secure these people.”

It also can make scientists more attractive to industry, says Bourguignon. One Swedish ERC grant winner, for example, was able to garner funding for two startups based on the credibility the grants gave him, says Bourguignon. “He initially didn’t think he was a candidate. His colleagues pushed him to apply.”

For Horizon 2020 applicants, proposals that take a multidisciplinary approach are more likely to be successful. “Be prepared to step outside of your comfort zone,” says Geoghegan-Quinn. “We are asking scientists to be bold and brave and not stay pigeon holed in the same area.”

Horizon 2020 boasts other improvements over FP7 that include a move to online application and review, shorter review times, and streamlined auditing—measures that not only modernize the process but also address major criticisms of its predecessor. On measuring Horizon 2020’s success, Geoghegan-Quinn’s says: “I am hoping the money we are investing in these societal challenges will not only make my life better but also give hope to young people.”

Gunjan Sinha is a freelance writer living in Berlin, Germany.

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PRIZES

The Foundation for Polish Science has for the 23rd time granted its Prizes, considered to be Poland’s most important scientific awards.

The Foundation for Polish Science Prize 2014 Laureates

PROF. TOMASZ GOSLAR from Adam Mickiewicz University in Poznan received the FNP Prize 2014 in the life and earth sciences for his contribution to determining the chronology of changes in C14 carbon isotope concentration in the atmosphere during the last ice age, which is of key importance for contemporary climate research.

PROF. KAROL GRELA from the University of Warsaw and the Institute of Organic Chemistry of the Polish Academy of Sciences in Warsaw received the FNP Prize 2014 in the chemical and materials sciences for developing new catalysts for olefin metathesis reactions and applying them in industrial practice.

PROF. JWO BIAŁYNNICKI-BIRULA from the Centre for Theoretical Physics of the Polish Academy of Sciences received the FNP Prize 2014 in the mathematical, physical and engineering sciences for fundamental studies of the electromagnetic field that has led to the formulation of the uncertainty relations for photons.

PROF. LECH SzcZUCKI from the Institute of Philosophy and Sociology of the Polish Academy of Sciences received the FNP Prize 2014 in the humanities and social sciences for explaining the cultural ties between Central and Western Europe in a monumental edition of the correspondence of Andrzej Dudycz, the 16th-century thinker, religious reformer and diplomat.

The Foundation for Polish Science has been in operation since 1991. It is a non-governmental, non-political, non-profit institution which pursues the mission of supporting science. It is the largest non-profit organization in Poland dedicated solely to the development of science.

www.fnp.org.pl
The Institut Pasteur (Paris, France) announces an international call for group leader positions in the field of quantitative biology and modeling in developmental systems. Successful applicants will be integrated into the cutting edge interdisciplinary environment offered by an internationally renowned institute combining fundamental and translational research, in an attractive location in central Paris, in close proximity to other major research centers. Candidates with both an experimental and theoretical background, using quantitative approaches and willing to develop multidisciplinary projects related to developmental processes are encouraged to apply.

Successful junior candidates [1] will be appointed with a permanent position, and as head of a group of 6 people. These groups will be created for a period of 5 years and may thereafter compete for a full research group.

Successful mid-career and senior candidates will be appointed with a permanent position, and as head of a research group of 8 to 12 people. The groups will be created for 10 years (mid-term evaluation at 5 years) with the possibility of renewal. Candidates should send their formal applications by E-mail to the Director of Scientific Evaluation, Prof. Alain Israël, at the Institut Pasteur (qubimo@pasteur.fr).

Application deadline: February 6, 2015
Short-listed candidates will be contacted for interview.

Applicants should provide the following (in order) in a single pdf file:

1. A brief introductory letter of motivation, including the name of the proposed group. Candidates are encouraged to contact the head of the Search Committee Francois Schweisguth (fschweis@pasteur.fr) or the head of the Department of Developmental & Stem Cell Biology Shahragim Tajbakhsh for queries (shaht@pasteur.fr).
2. A Curriculum Vitae and a full publication list.
3. A description of past and present research activities (up to 6 pages with 1.5 spacing; Times 11 or Arial 10 font size).
4. The proposed research project (up to 6 pages with 1.5 spacing; Times 11 or Arial 10 font size).

Junior candidates [1] should also provide:
5. The names of 3 scientists from whom letters of recommendation can be sought, together with the names of scientists with a potential conflict of interest from whom evaluations should not be requested.

[1] Institut Pasteur is an equal opportunity employer. Junior group leaders should be less than 8 years after PhD at the time of submission (Dec 31, 2014). Women are eligible up to 11 years after their PhD if they have one child and up to 14 years after their PhD if they have two or more children.

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The Universidade NOVA de Lisboa invites applications for a full time position as

**Director**

of the Instituto de Higiene e Medicina Tropical

The position of Director of the Institute of Hygiene and Tropical Medicine (IHMT), Universidade NOVA de Lisboa, is open for applications.

The Director must have a doctorate degree (Ph.D.) or legal equivalent, scientific seniority in areas of interest to the mission of the IHMT (see at http://www.ihtm.unl.pt) and management experience. A good knowledge of Portuguese and English is required.

Candidates should demonstrate initiative and strategic vision, as well as capacity to implement the statutory mission of the IHMT, promoting national and international contacts. Successful candidates should guarantee proper functioning and good management of the various administrative and scientific units of the IHMT, also committing themselves to seek appropriate funding sources to strengthen IHMT strategic action in the area of Health and Life Sciences.

Applications, submitted electronically before 12 pm on December 22, 2014, should include the following:

1. application letter, addressed to the Chairman of the Electoral Commission;
2. brief Curriculum vitae, with clear information on relevant professional experience;
3. a plan of action (max. 3 pages) within the operating area of the IHMT, demonstrating strategic planning and management capacity in higher education, research, internationalization and cooperation for development.

All documents should be sent to eleicoadirendor@ihtm.unl.pt along with an electronic confirmation of receipt.

Salary will be determined in accordance to the Portuguese law, corresponding, as an indicative value, to a maximum monthly wage of 5,846.41 €, before taxes.

Selected applicants will be interviewed at IHMT, in Lisbon, on January 26, 2015.

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**Postdoc TGF-β**

Leiden University Medical Center (LUMC) is committed to ongoing improvement of health care quality, invests in health-care related research, and intends to consolidate its leading international role in this area.

- The Department of Molecular Cell Biology has two Postdoctoral positions available in a dynamic, international and interdisciplinary research team to study the molecular basis of subverted TGF-β signal transduction, one in cancer and one in cardiovascular biology.

- Informal enquiries can be obtained from Prof. Peter ten Dijke, e-mail p.ten_dijke@lumc.nl, telephone +31 (0)71 526 92 71.

- To apply, send your letter of application and CV, a description of research accomplishments, and contact information of two references to PenO-div4@lumc.nl. Please quote job reference number D.14.VC.MP.18/19/SC48
Ludwig-Maximilians-Universität (LMU) in Munich is one of the leading research universities in Europe, with a more than 500-year-long tradition. LMU aims at creating favorable conditions for excellent junior academics. To provide gifted early-career researchers in all subject areas with a long-term career perspective, LMU is offering Tenure Track Professorships to ERC Starting Grantees

If you intend to submit a proposal to the current call of the European Research Council and would be interested in joining LMU’s research community, please contact the appropriate faculty member in your field of research as soon as possible.

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Uppsala University is recruiting a Senior Lecturer in Molecular Detection

at the Department of Immunology, Genetics and Pathology, Molecular Tools unit. Research in the Molecular Tools unit is focused on conceiving and developing advanced molecular analysis techniques with applications in medicine and biology, and to make these technologies broadly available. The work follows a strong local tradition for molecular tools development, reflected in an active biotech industry in Uppsala and Stockholm. Unlike the situation in most countries the so-called teacher’s exemption in Sweden grants university employees full rights to their own inventions, allowing scientists to engage in translating their findings for industrial applications. Technologies previously developed by the Molecular Tools unit at Uppsala University have been licensed to eleven major international biotechnology or diagnostics companies, and their technologies have also formed the basis of five start-up companies spun out from the lab.

The Senior Lecturer position includes research, teaching, and administration. The Senior Lecturer is expected to conduct and publish internationally competitive research within the molecular detection area, and to attract external funding for this research.

The successful candidate for this post should display research experience in the area of innovative molecular detection and analysis technology, and expertise that complements work in the Molecular Tools research program. Examples of desired expertise include the ability to develop new important techniques for molecular analysis and to apply them in large-scale biomedical contexts, together with deep insights into molecular technological needs and requirements in biomedical research and clinical diagnostics.

Information about the position can be given by Professor Ulf Landegren, +46 18-471 49 10, ulf.landegren@igp.uu.se.

Deadline for the application is December 21st 2014. For full advertisement and link to the application form go to http://www.uu.se/en/join-us/jobs/
Reference number UFV-PA 2014/3179
International call for applications for two exceptional grant awards within the areas of biomedicine and biotechnology

Novo Nordisk Foundation Laureate Research Grants are for outstanding established scientists to come to Denmark to strengthen their groundbreaking research programs. Applicants must have an independent research program that they have directed for 7 or more years in total.

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Application deadline: February 10, 2015

Further information
To learn more about these grants, eligibility and the application process, please visit: www.novonordiskfonden.dk/en

International call for applications for two exceptional grant awards within the areas of biomedicine and biotechnology

Novo Nordisk Foundation Young Investigator Awards are for outstanding younger scientists to come to Denmark to expand their groundbreaking research programs. Applicants must have an independent research program that they have directed for less than 7 years in total.

Grant funding
- Up to 20 million Danish kroner over 7 years (EUR ~2.7 million, USD ~3.4 million).
- NNF Young Investigator Award holders can apply for additional funding from other eligible Novo Nordisk Foundation programs.

Application deadline: February 10, 2015

Further information
To learn more about these grants, eligibility and the application process, please visit: www.novonordiskfonden.dk/en

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For an overview on research in Luxembourg, have a look at www.innovation.public.lu

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Assistant Associate Professor (JOB# 11032)

The School of Life Sciences at Arizona State University invites applications for a tenure-track faculty position in Macrosystems Biology, at the level of either Assistant or Associate Professor. Rank and tenure status will be commensurate with experience. Anticipated start date is August 16, 2015. Applicants must have a PhD or equivalent by the time of appointment; expertise in ecology, environmental science, or a related discipline; computational skills for handling large sets of data; and a record of or potential to conduct cutting-edge research to address problems spanning multiple spatial scales (e.g., global change, biological invasions, or disease control). Desired qualifications include: (1) experience building or working with interdisciplinary teams, (2) a strong record of scholarly achievement, (3) extramural funding from diverse sources, (4) experience with teaching and mentoring at a university, (5) two years of postdoctoral training, (6) a record of research that combines theoretical modeling and empirical data, (7) potential to complement existing research in the School of Life Sciences and in other centers throughout the university are preferred. Examples of relevant centers include the Global Institute of Sustainability, the Center for Biodiversity Outcomes, and the Center for Environmental Science Applications, and the Complex Adaptive Systems Initiative.

Arizona State University is a dynamic, progressive university dedicated to interdisciplinary collaboration, to student-centered education, and to reshaping the relationship between academia and society. The successful candidate will interact with interdisciplinary research teams within the university, teach at the undergraduate and graduate levels, and serve the school, the university, and its surrounding communities.

To apply, please submit: (1) a cover letter addressed to Michael Angilletta, Chair, Macrosystems Biology Search Committee, (2) curriculum vitae, (3) three representative publications, (4) contact information for three references, (5) a statement of research accomplishments and goals (emphasizing collaborative interdisciplinary research), and (6) a statement of teaching philosophy and experience. Application materials must be sent electronically in a single pdf file to solsfacultysearch@asu.edu. The initial closing date for receipt of applications is January 2, 2015; applications will be reviewed weekly thereafter until the search is closed. A background check is required for employment.

Arizona State University is a VEVRAA Federal Contractor and an Equal Opportunity/Affirmative Action Employer. All qualified applications will be considered without regard to race, color, sex, religion, national origin, disability, protected veteran status or any other basis protected by law.


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To obtain additional information and apply for the position please use the following website: https://recruit.ucdavis.edu/apply/JPF00442. Additional inquiries can be directed to Associate Professor Brian D. Todd, Recruitment Advisory Committee Chair, Department of Wildlife, Fish, & Conservation Biology, One Shields Ave., University of California, Davis, CA 95616, Tel (530) 754-1140, FAX (530) 752-4154, email: btodt@ucdavis.edu. The position will remain open until filled but to ensure consideration, applications should be received by January 9, 2015.

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BILOGY CHAIR SEARCH

The Department of Biology at Georgia State University invites applications and nominations for a tenure-eligible Professor to fill a 12-month position of Department Chair preferably to begin July, 2015. The successful candidate must have a Ph.D. or equivalent degree, a distinguished record in biological or biomedical research that includes a history of significant external support, demonstrated leadership skills, and a strong commitment to graduate and undergraduate training and education. The Department Chair reports to the Dean of the College of Arts and Sciences and will provide visionary direction for collaborations and partnerships with other Departments, Schools, Centers, and Institutes of the University in accordance with its five- year University Strategic Plan (http://www.gsu.edu/about/governance-and-strategy/).

The Department of Biology consists of 55 full-time faculty with diverse research interests and a strong commitment to undergraduate education. The department offers Ph.D. degree programs with concentrations in Applied & Environmental Microbiology, Cellular and Molecular Biology and Physiology, Molecular Genetics and Biochemistry, and Neurobiology & Behavior as well as a strong M.S. degree program. The departmental research programs are supported by state-of-the-art core facilities. More information on the department can be found at www.biology.gsu.edu.

Founded in 1913, Georgia State University is a leading urban research university located in the heart of downtown Atlanta, a growing, dynamic, diverse, and global metropolis. This diversity is reflected in its student population of more than 32,000, including more than 24,000 undergraduates, with additional growth anticipated.

Applicants should arrange to have 3 reference letters as well as curriculum vitae, letter of intent, and samples of scholarly work and leadership effectiveness sent to biologychairssearch@gsu.edu. Applications from underrepresented minority and female candidates are enthusiastically encouraged. Application review will begin December 1, 2014, and the position will remain open until filled. Employment is contingent on background verification.

Georgia State University, a part of the University System of Georgia, is an Equal Opportunity Educational Institution and an EEO/AA Employer.
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Rutgers, The State University of New Jersey, has a robust new program in Cancer Genetics, initially funded through philanthropy, in collaboration with the Department of Genetics, the Human Genetics Institute of New Jersey and the Rutgers Cancer Institute of New Jersey. The Department of Genetics seeks to appoint an accomplished senior scientist with clinical interests who pursues discoveries on the genetic bases of cancers and the application of novel information to diagnostics and/or treatments. The Candidate will also be appointed as a Full Member of the Cancer Institute of New Jersey, one of only 41 NCI-designated Comprehensive Cancer Centers. A secondary appointment to an appropriate clinical department is possible. The Chair will help structure an endowment-supported curriculum in Cancer Genomics. The Chair is accompanied by significant new and existing resources and additional faculty appointments in related areas. Appointees shall have appropriate access to the advanced genomic technologies and computational resources of RUCDR Infinite Biologies*, a world leader in sample acquisition, processing and genomic analysis. Suitable recently-built laboratory space and computational resources are available.

The Department of Genetics, located on the Rutgers Piscataway campus, is home to over 30 faculty with diverse interests and numerous well-funded research programs, and is part of a vibrant life sciences and computational community. The Cancer Institute of New Jersey, with its extensive research and clinical programs, is on the immediately adjacent Rutgers New Brunswick campus. Both are located in suburban central New Jersey, close to New York City, Philadelphia, beaches, and countryside. For more information on the Department and Rutgers see: http://genetics.rutgers.edu/faculty/faculty-recruitment.

Candidates must have an M.D. and/or a Ph.D. or the equivalent in Genetics or a related field. They must have successful history of leadership, discovery, and publication as demonstrated by consistent, current and significant grant funding and be eligible for appointment at the Professor or Distinguished Professor rank. Applicants should submit a CV, a detailed statement of research interests, a teaching statement, and full contact information for three individuals willing to provide letters of reference. Applications should be submitted electronically at http://apply.interfolio.com/27239 and inquiries made to Ms. Mary Carmona, carmona@dls.rutgers.edu. Review of applications will begin November 15, 2014 and continue until the position is filled.

Faculty Position in Computational Genetics

The Department of Genetics in the School of Arts and Sciences at Rutgers, The State University of New Jersey seeks an outstanding scientist to complement the existing faculty in computational genetics, moving our program into exciting new areas and expanding our existing strengths. Tenure-track or tenured appointment will be made at the Assistant, Associate, or Full Professor level. Areas of interest include, but are not limited to, population or evolutionary genetics, bioinformatics, statistical genetics, computational genomics, and analysis of complex genetic diseases. Experienced faculty with appropriate experience will be considered for a leadership role within our Computational Genetics Group. Department of Genetics faculty may also join the Human Genetics Institute of New Jersey. Core resources and generous startup funds will be provided. Research space, including wet lab if needed, will be provided in the newly constructed Life Sciences Building.

The Department of Genetics is home to over 30 faculty with diverse interests and numerous well-funded research programs, hosts one of the oldest undergraduate majors in Genetics in the country, and is part of a vibrant life sciences and computational community. Our computational group collaborates with other Department of Genetics faculty and Rutgers scientists within the Division of Life Sciences, the Departments of Computer Science and Statistics, the Waksman Institute, the Center for Advanced Biotechnology and Medicine, the Robert Wood Johnson Medical School, the BioMaPS Institute for Quantitative Biology, the Center for Discrete Mathematics and Theoretical Computer Science (DIMACS), the Center for Human Evolutionary Studies, and the Cancer Institute of New Jersey. The New Brunswick/Piscataway campus is located in suburban central New Jersey, close to New York City, Philadelphia, beaches, and countryside. For more information on the Department and Rutgers see: http://genetics.rutgers.edu/faculty/faculty-recruitment.

Candidates must have an M.D. and/or a Ph.D. or the equivalent in Genetics, Computer Sciences, or a related field, demonstrated record of significant research, the potential to make substantial contributions as an independent investigator, and have a commitment to teaching undergraduate and graduate students. Applicants should submit a CV, a detailed statement of research interests, a teaching statement, and full contact information for three individuals willing to provide letters of reference. Applications should be submitted electronically at http://apply.interfolio.com/22156 and inquiries made to Ms. Mary Carmona, carmona@dls.rutgers.edu. Review of applications will begin November 1, 2014 and continue until the position is filled.

Rutgers, the State University of New Jersey, is an Equal Opportunity / Affirmative Action Employer. Qualified applicants will be considered for employment without regard to race, creed, color, religion, sex, sexual orientation, gender identity or expression, national origin, disability status, genetic information, protected veteran status, military service or any other category protected by law. As an institution, we value diversity of background and opinion, and prohibit discrimination or harassment on the basis of any legally protected class in the areas of hiring, recruitment, promotion, transfer, demotion, training, compensation, pay, fringe benefits, layoff, termination or any other terms and conditions of employment.
Learn more and bring your job search in for a smooth landing.

- Search thousands of job postings
- Create job alerts based on your criteria
- Get career advice from our Career Forum experts
- Download career advice articles and webinars
- Complete an individual development plan at “myIDP”

Target your job search using relevant resources on ScienceCareers.org.
Nanjing University of Aeronautics and Astronautics (NUAA) is a research-oriented national key university of “211 Project”. It also enjoys a well-balanced development of multiple disciplines in engineering, technology, natural sciences, economy, management and social sciences with the characteristics of aeronautics, astronautics and civil aviation. NUAA is qualified to be “Dominant Discipline Innovation Platform of 985 Project” and to independently recruit and receive international students who are granted the Chinese Government Scholarship. Now NUAA consists of 16 colleges with more than 3,000 staff members and approximately 26,000 degree students.

Academia and education at NUAA represent strong capacity among all the universities in China. It has acquired national status through the quality of its excellence research work, especially in the areas of Aerospace Engineering, Mechanics, Electromechanics, Economy and Management, etc.

NUAA gives a warm welcome to excellent experts, scholars and young students from both home and abroad, who are willing to serve the country, dedicate themselves to the development of aerospace science and make contributions to the industrialization, information technology of China. NUAA will provide teachers and researchers with a good academic environment, satisfactory working and living conditions and a stage on which they can put their talents to good use.

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Hunting for Talents
NUAA, Jiangsu, China

Faculty Positions available at Hohai University, Nanjing, China

Hohai University invites applications for faculty positions at the assistant, associate, or full professor level in the area of engineering, science, economics, management, liberal arts, and law. Applicants should have a doctoral degree from a prestigious university. For the complete job announcements and directions on how to apply, visit: rsc.hhu.edu.cn or contact the Department of human resource at 86-25-83786205.

Hohai University, founded in 1915, wins its worldwide reputation on the research of Water Science & Civil Engineering & Environment Engineering. It is a National key university of China, and among the universities of the National “211 Project” and Innovation Bases of the National “985 Project”. Hohai University aims to be a research oriented university.

Southwest Jiaotong University, P.R. China

Southwest Jiaotong University (SWJTU), founded in 1896, situates itself in Chengdu, the provincial capital of Sichuan. It is a national key multidisciplinary “211” and “985 Feature” Projects university directly under the jurisdiction of the Ministry of Education, featuring engineering and a comprehensive range of study programs and research disciplines spreading across more than 20 faculties and institutes/centers. Boasting a complete Bachelor-Master-Doctor education system with more than 2,500 members of academic staff, our school also owns 2 first-level national key disciplines, 2 supplementary first-level national key disciplines (in their establishment), 15 first-level doctoral programs, 43 first-level master programs, 75 key undergraduate programs, 10 post-doctoral stations and more than 40 key laboratories at national and provincial levels.

Our university is currently implementing the strategy of “developing and strengthening the university by introducing and cultivating talents”. Therefore, we sincerely look forward to your working application.

More information available at http://www.swjtu.edu.cn/

Southwest Jiaotong University, P.R. China Anticipates Your Working Application

A. High-level Leading Talents

It is required that candidates be listed in national top talents programs such as Program of Global Experts, Top Talents of National Special Support Program, “Chang Jiang Scholars”, China National Funds for Distinguished Young Scientists and National Award for Distinguished Teachers.

Candidates are supposed to be no more than 50 years old. The limitation could be extended in the most-needed areas of disciplinary development.

Candidates who work in high-level universities/institutes and reach the above requirements are supposed to be no more than 45 years old.

B. Young Leading Scholars

Candidates are supposed to be listed in or qualified to apply for the following programs:

- National Thousand Young Talents Program
- Top Young Talents of National Special Support Program
- Program for Supporting Top Young Talents
- Science Foundation for the Excellent Young Scholars

Candidates should have good team spirit and leadership, outstanding academic achievements, broad academic vision and international cooperation experience and have the potential of being a leading academic researcher.

C. Excellent Young Academic Backbone

Candidates under 45 years old are expected to graduate from high-level universities/institutes either in China or other countries. Those who are professors, associate professors and other equal talents from high-level universities/institutes overseas could be employed as professors and associate professors as well.

D. Excellent Doctors and Post Doctoral Fellows

Candidates under 35 years old are supposed to be excellent academic researchers from high-level universities either in China or other countries.

II. Terms

The candidates will be provided with competitive salaries and welfare that include setting-in allowance, subsidy of rental-residence, start-up funds of scientific research, assistance in establishing scientific platform and research group as well as international-level training and promotion. As for outstanding returnees, we can offer further or specific treatments that can be discussed personally.

III. Contact

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http://www.swjtu.edu.cn/