POSTDOCTORAL OPPORTUNITIES

POSTDOCTORAL FELLOW

The University at Buffalo Microbiome Center invites applications for a postdoctoral fellow. The successful candidate will participate in a research project of mutual interest related to the emerging field of understanding the role of the microbiome and metabolome in human health and disease. Projects relating to the role of the microbiome and metabolome are ongoing in metabolic diseases such as diabetes and obesity, in cardiovascular disease and in specific cancers.

Please send applications to Dr. Robert Genco, e-mail: (rgenco@buffalo.edu). Include a brief cover letter including summary of research experience and interests, Curriculum Vitae and contact information, and references.

POSITIONS OPEN

PRINCETON UNIVERSITY

DEPARTMENT OF CHEMISTRY

ASSISTANT PROFESSOR

The Department of Chemistry at Princeton University invites applications for a tenure track assistant professor position in all areas of chemistry. We seek a faculty member who will create a climate that embraces excellence and diversity with a strong commitment to research and teaching that will enhance the work of the department and attract and retain a diverse student body. We especially encourage applications from members of all underrepresented groups. Candidates are expected to have completed the Ph.D. in chemistry or a related field at the time of appointment. Applicants should submit a description of research interests, curriculum vitae, a list of publications, and contact information for three referees who will be contacted for confidential letters of recommendation. Apply online at website: https://www.princeton.edu/acadpositions/position/2861. For fullest consideration, candidates are encouraged to submit completed applications by October 15, 2017. Princeton University is an Equal Opportunity Employer. All qualified applicants will receive consideration for employment without regard to race, color, religion, sex, national origin, disability status, protected veteran status, or any other characteristic protected by law. This position is subject to the University’s background check policy.

POSTDOCTORAL FELLOWSHIP

A postdoctoral fellowship is available at the University of Colorado Boulder to examine neuroendocrine control of reproduction. The candidate should have a Ph.D. or equivalent. Experience with rodent surgery, immunohistochemistry, immunonassays, molecular cloning and PCR is desirable. The ideal candidate should be bench-intensive, self-motivating, and intellectually driven. A description of our research interests can be found at website: http://www.colorado.edu/intphys/research/reproductive.html. To apply, contact Dr. Pei-San Tsai, e-mail: (pei-san.tsai@colorado.edu) and include a cover letter and Curriculum Vitae. The University of Colorado is an Equal Opportunity Employer committed to building a diverse workforce.

POSTDOCTORAL POSITIONS

2018 Carnegie Fellowships for the Geophysical Laboratory

The Geophysical Laboratory, Carnegie Institution of Washington, invites applications for postdoctoral fellowships. The Geophysical Laboratory emphasizes interdisciplinary experimental and theoretical research in fields spanning geoscience, microbiology, chemistry, and physics. The Laboratory supports world-class facilities in high-pressure research; organic, stable isotope and Biogeochemistry; mineral physics and petrology, and astrobiology.

Please visit website https://jobs.carnegiescience.edu/jobs/2018-carnegie-fellowships-for-the-geophysical-laboratory/ to view a list of required materials and application instructions. Also, see http://gl.ciw.edu/people for a listing of personnel, current research interests, and major facilities.

Completed applications for Carnegie fellowships should be submitted by December 1, 2017. The position will remain open until filled.

The Geophysical Laboratory is located in Washington, DC, and is an Equal Opportunity Employer.
In 2014, chemist Arielle Johnson teamed up with a chef at a Michelin-starred restaurant and turned a shipping container into a fermentation chamber. Johnson isn’t the only scientist who’s been engaging in unusual collaborations and straying from traditional career pathways. In this article, five researchers discuss the pros and cons of leaving their scientific comfort zone.

By Chris Tachibana

For years, research leaders have urged scientists to leave their silos. In a 2014 editorial, former AAAS President Phillip Sharp and then CEO Alan Leshner encouraged multidisciplinary teams to tackle global challenges in health, energy, and sustainability. In 2003, Elias Zerhouni, then director of the U.S. National Institutes of Health, released an organizational roadmap emphasizing interdisciplinary work. Scientists can also personally benefit from collaborations that are outside their field. They might learn new skills, explore career options, or just indulge a passion.

Clearing your head

Since 2008, AAAS has encouraged graduate students to combine science and art in its annual “Dance Your Ph.D.” contest. Students submit a video portraying their research through dance, and prizes are awarded in several categories. The 2016 People’s Choice Award went to Emmanuelle Alaluf of the Free University of Brussels, for her video using ballet and other dance styles to show how tumor cells evade the immune system.

Alaluf was on a path to become a professional dancer but eventually chose medical school and then graduate school. The video highlights her skills in both dance and science. “It was a way to explain my Ph.D. research by dancing, which I think is a universal language,” she says.

Alaluf says that maintaining dancing as an outside interest has benefits. During medical school, with its long days of classes and studying, she would look forward to evening classes in diverse types of dance. “It made me more efficient,” she says, “knowing I’d need to finish at a certain hour so I could go and relax a bit by dancing. When you relax, you work better than if you just spend all your time working.”

Years of balancing classes, lab work, and dancing taught her how to make a plan for a project and stick to it. That skill helped in choreographing and producing the video. “You just have to be organized and keep a good schedule,” she says.

Learning new skills

No experience is needed for the Dance Your Ph.D. contest, though. Jacob Brubert’s dancing background consists of only a few tap and salsa lessons. But the video he produced about his University of Cambridge Ph.D. project on heart valve bioengineering earned him US$1,000 and a trip to the 2017 AAAS annual meeting.

Brubert likes finding new ways to explain his work. “Whenever I do a research presentation, I think about how I could tell the story a bit differently,” he says. Peer pressure was another factor in entering the video contest, he says, since he had been talking about it for years.

Brubert’s video pays tribute to his university, featuring iconic landmarks such as the Mathematical Bridge, an arch constructed of straight timber. The video shows a rarely reported but common outcome of research: failure. “When your work doesn’t reach its ultimate goal, it’s good to be able to communicate the knowledge [you did acquire] in some way,” he says. The project also gave Brubert experience in editing video. “I’ve had grant reviewers ask, ‘Do you have a video to show that?’ So this skill will be useful,” he says.

Science videos may have value beyond entertainment, with funders such as the U.S. National Science Foundation (NSF) and some graduate programs now requiring an outreach or public impact component. Scientists commenting on the YouTube version of Alaluf’s video say they are sharing it as an excellent explanation of T cells and cancer.

Upcoming features

Faculty: Managing multigenerational teams—September 15  ■ Faculty: Changing your career focus—October 6  ■ Top Employers—October 20
Creating links that last a lifetime
at the International Centre for Fundamental Physics and its Interfaces
École normale supérieure, Paris (ENS-ICFP)

In 2017, three outstanding Junior Research Chairs at postdoctoral level are hired for a two-year contract with a probable extension for a third year. Fellows are expected to develop new research projects within the Department of Physics at École normale supérieure.

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For the two other positions, the program actively encourages experimental projects through a reserved budget.

Deadline to apply is October, 30 2017 for positions starting in September 2018.

The Junior Research Chair positions are funded by the 10-year ENS-ICFP grant obtained through the French National Excellence Initiative.
One or two additional positions in theoretical physics will be made available by the Philippe Meyer Institute

Application process and research themes can be found at https://www.phys.ens.fr/?lang=en

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Both Alaluf and Brubert recommend projects like Dance Your Ph.D. as an exercise in effective science communication. Alaluf says it made her see her work differently and prompted her to think of new ways to explain it. “It’s hard to compress your Ph.D. into a few minutes,” Brubert says. “So it’s a good lesson in picking out what’s important to communicate.” Plus, he says, “Now I have a fun way to finish presentations about my work.”

**Exploring career paths**

For Lise Johnson, outside projects are a way to hone communication skills, have fun, and explore career options. Johnson is a research scientist studying sleep, memory, and learning, and is the education manager for internships at the Center for Sensorimotor Neural Engineering, based at the University of Washington in Seattle.

In 2014, Johnson participated in “Thought Experiments on the Question of Being Human,” an annual festival of short plays about science, technology, and humanity, organized by the city’s Infinity Box Theatre Project. Johnson was one of five scientists who talked with local playwrights about neural engineering. The playwrights turned the conversations into plays that were performed as staged readings. Johnson did the project for fun, without expectations. “It was an interesting intersection of different fields,” she says. “And I got to practice something I do a lot—talk about science to people without a science background.” She is also coauthoring popular science books with her research center’s executive director. Their first is *Brain Bytes: Quick Answers to Quirky Questions About the Brain*.

Johnson says projects that use scientific knowledge in nontraditional ways can be a way to consider career paths. “I’m still considering a research career, but working in education, industry, or science communication is also a possibility, so I do these types of projects to get experience,” she explains. The secret to juggling diverse obligations like research, book projects, teaching, and family life with two young children, observes Johnson, is being organized and transitioning quickly from one type of work to another. “Scheduling is a big issue,” she says. “I used to rely on my memory, but now I write everything down.”

**Keeping options open**

Early career scientists may particularly benefit from experiences outside the lab. Sam Wang, a professor of molecular biology at Princeton University, who directs a lab at the Princeton Neuroscience Institute, says the main responsibility of his students and postdocs is their research—but they should also be thinking about their career path, he adds. In addition to academic and research positions, he has had advisees take jobs at a pharmaceutical company, a science journal, and a hedge fund. “As scientists, we always have to think about the next thing,” he says, “but when you’re a student, it’s especially important. And there’s so much you can do with science training.”

Wang speaks from experience. Throughout his career, he has applied his scientific skills to a personal interest in politics and policy. During his postdoctoral fellowship, he took a year to do a AAAS Science & Technology Policy Fellowship, assisting Sen. Ted Kennedy with science and education policy. “The work I did used my verbal and math science skills,” he says. “I did statistical analysis, designed charts, and provided information for speeches and documents.” Wang considered continuing in government, but stuck with his original plan to go back to neuroscience. One reason was that an academic position doesn’t preclude working in policy in the future. “I knew the policy work would still be there, and it still is,” he says.

Early in his academic career, Wang launched his nationally known Princeton Election Consortium blog, which analyzes U.S. elections. He also coauthored the popular science book *Welcome to Your Brain: Why You Lose Your Car Keys but Never Forget How to Drive and Other Puzzles of Everyday Life*. Wang’s attitude was that the pretenure period is high pressure, but also gives you several years of job security, which allows you to pursue other interests. Sometimes, though, your job and your outside interests will simultaneously impose demands, he says, and then “you just have to make all the deadlines.”

**Launching a new field**

Merging disciplines can be a career in itself. Arielle Johnson has been interested in science and culinary arts since the early 2000s, when molecular gastronomy was in the news and a new edition of Harold McGee’s classic book, *On Food and Cooking: The Science and Lore of the Kitchen*, was released. While studying at New York University, she heard that chemistry professor Kent Kirshenbaum was planning a seminar series on science and food. “I talked my way into the first meeting and refused to leave,” she says. That opportunity introduced her to culinary leaders and led to an undergraduate project on how polymers change the texture of ice cream.

Finding a graduate program took some effort, since Johnson’s interests didn’t match the curricula of typical food science departments. The perfect fit was the University of California, Davis, which houses the Robert Mondavi Institute for Wine and Food Science. The executive board includes McGee, who has since become Johnson’s friend and mentor. When she explained that she wanted to work with chefs on experimental food techniques, Johnson says, “They got it.”

In graduate school, Johnson networked her way to a summer position at Noma in Copenhagen, Denmark, which led *Restaurant* magazine’s “World’s 50 Best Restaurants” list. At first, the chefs weren’t sure what to do with the American scientist in their kitchen. “They were skeptical,” Johnson says. But the restaurant was experimenting with adding insects to their recipes and one day, she saw Chef Lars Williams reading a research paper on insect pheromones. When Johnson pointed to the chemical diagrams and said, “Those are flavor molecules,” the chefs realized what she could contribute.

In addition to scientific expertise, Johnson attributes her success in a high-pressure restaurant environment to...
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As scientists, we always have to think about the next thing, but when you're a student, it's especially important. And there's so much you can do with science training.

— Sam Wang

Dr. Wang, far right, with his lab group.

Featured participants

Center for Sensorimotor Neural Engineering, University of Washington
www.csne-erc.org

Free University of Brussels
www.vub.ac.be/en

MIT Media Lab, Massachusetts Institute of Technology
www.media.mit.edu

Princeton Neuroscience Institute
pni.princeton.edu

Robert Mondavi Institute for Food and Wine Science
robertmondaviinstitute.ucdavis.edu

University of Cambridge
www.cam.ac.uk

Additional resources

AAAS Science & Technology Policy Fellowships
www.aaas.org/program/science-technology-policy-fellowships

Brain Bytes: Quick Answers to Quirky Questions About the Brain

Dance Your Ph.D. Contest
www.sciencemag.org/projects/dance-your-phd

Meeting Global Challenges
www.sciencemag.org/content/343/6171/579.summary

Princeton Election Consortium
election.princeton.edu

Welcome to Your Brain: Why You Lose Your Car Keys but Never Forget How to Drive and Other Puzzles of Everyday Life
www.bloomsbury.com/us/welcome-to-your-brain-9781596915237

Think, ask, then “give it a go”

Based on their experience with unusual collaborations, the scientists have some advice. Think about your goals for the project you're working on. Arielle Johnson says, “You'll have a happier time if you figure out what you want from it first.” Try blogging or other writing to explore and reflect on a new field and establish your presence there, she suggests.

If the project requires time away from the lab, consider the financial aspects. Johnson had an NSF graduate fellowship, which gave her the freedom to go to Noma for several months. “Having money that you control is extremely liberating,” she says. Wang says the AAAS fellowship let him immerse himself in the government for a year, so he could fully experience that work. “The time away from my research clarified what I wanted,” he says. “In the end, it was to come back to neuroscience, but the year away sharpened my ambition in the field.”

Regardless of the time involved, consult your advisors. Both Alaluf and Brubert talked with their advisors in advance and didn’t let video production interfere with their research. Wang says he applied for the policy fellowship with the support of his postdoctoral advisor, who told him he could return to the lab afterward.

While academic advisors can give some important guidance, external networking is also critical. Reach out via social media or in person, and at talks or conferences, to people who inspire you and are working in the area that interests you, as Arielle Johnson did with McGee. “Scientists might not be the most sociable people, but everyone enjoys talking about shared interests,” she says. Consult a lot of people for guidance, she advises, and be respectful of the time they take to mentor you.

Wang recommends talking to those who made the same decision you are considering. People are usually very generous about sharing their experiences, he says. “Get advice from people who’ve been at the same career crossroad, but are now 5 or 10 years further along.”

Once you decide to collaborate on a nontraditional project, whether you are contributing your scientific expertise or just showing up and dancing, put your heart into it. “Give it a go,” says Brubert. “People who are enthusiastic make everything easier and fun.”

Chris Tachibana is a science writer based in Seattle, USA, and Copenhagen, Denmark.

DOI: 10.1126/science.opms.r1700175

828
The EGL Charitable Foundation invites you to apply to the

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ABOUT THE EMPLOYER: The National Academies of Sciences, Engineering, and Medicine’s Fellowships Office has conducted the NRC Research Associateship Programs in cooperation with sponsoring federal laboratories and other research organizations approved for participation since 1954. Through national competitions, the Fellowships Office recommends and makes NRC Research Associateship awards to outstanding postdoctoral and senior scientists and engineers for tenure as guest researchers at participating laboratories. A limited number of opportunities are available for support of graduate students in select fields.

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origins.asu.edu/postdocaward
Nomination deadline Nov. 1, 2017
The Department of Biomedical Engineering in the Purdue School of Engineering and Technology at Indiana University-Purdue University Indianapolis (IUPUI) is seeking highly qualified individuals to apply for the position of Department Chair and holder of the Thomas J. Linnemeier Guidant Foundation Chair in Biomedical Engineering, an endowed, tenured position at the rank of Professor.

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Major institutes and centers at IUPUI include the Biomechanics and Biomaterials Research Center, the Indiana Center for Musculoskeletal Health, the Simon Cancer Center, the Kranert Institute of Cardiology, and the Stark Neurosciences Institute. A qualified candidate may be offered joint appointments in both engineering and medicine. A more complete description of BME at IUPUI is available at www.engr.iupui.edu/bme/

The Purdue School of Engineering and Technology at IUPUI has 7 academic departments with an extensive undergraduate and graduate degree portfolio, including numerous CAC, EAC, and ETAC of ABET accredited B.S programs. The School has over 3,500 students, including approximately 500 graduate students pursuing either M.S. or Ph.D. programs. More information about the School is available at engr.iupui.edu/

The IUPUI campus has approximately 30,000 students and over 200 degree programs with annual research expenditures totaling over $300M. IUPUI has received the Higher Education Excellence in Diversity (HEED) Award for five consecutive years. More information about IUPUI is available at www.iupui.edu

Applications must include a statement of interest, curriculum vitae, and contact information for at least three references. Apply for this position at https://indiana.peopleadmin.com/postings/4229. Applications are welcome until the position is filled.

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All applicants must have obtained a PhD degree within the last ten years. Applicants should submit an application form including a research proposal to be conducted during the ICYS tenure, CV Header, CV with list of publications and patents (Be sure to attach the header), list of DOI of journal publications following our instruction, reprints of three significant publications to ICYS Recruitment Desk by September 28, 2017 JST. The application form and CV header can be downloaded from our website. Please visit our website for more details.

ICYS Recruitment Desk, National Institute for Materials Science
http://www.nims.go.jp/icys/recruitment/index.html

Jefferson Science Fellowship

The National Academies of Sciences, Engineering and Medicine is pleased to announce a call for nominations and applications for the 2017 Jefferson Science Fellows program. Initiated by the Secretary of State in 2003, this fellowship program engages the American academic science, technology, engineering and medical communities in the design and implementation of U.S. foreign policy. Jefferson Science Fellows (JSF) spend one year at the U.S. Department of State or the U.S. Agency for International Development (USAID) for an on-site assignment in Washington, D.C. that may also involve extended stays at U.S. foreign embassies and/or missions.

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The deadline for 2017-2018 program year applications/nominations is October 31, 2017. To learn more about the Jefferson Science Fellowship and to apply, visit the JSF website at: www.national-academies.org/jsf

The JSF program is administered by the National Academies of Sciences, Engineering and Medicine and supported by the U.S. Department of State and the United States Agency for International Development.


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The mission of SMU is to develop a national leading medical university in advancing human health through the integration of research, education, patient care, and community service. To achieve the goal of building a high-level university, SMU spares no effort to implement the strategy of "strengthening universities with more talented people" in order to greatly enhance the core competitiveness of talents and sustainable development capacity and to further strengthen the support for the introduction and training of outstanding personnel. For this purpose, the university is now recruiting high-level talents worldwide. (Please check [http://portal.smnu.edu.cn/rcb/zpxx/tp.htm](http://portal.smnu.edu.cn/rcb/zpxx/tp.htm) for more details.)

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**Application Process**
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- Tel: 0086-20-61648884
- Contacts: Mr. Li
- Email: smurcb@126.com
- Wechat ID: smurcb
- Address: No. 1023, Shatai Nan Road, Guangzhou, China
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- **Address**: School of International Service, Founders Room, 4100 Massachusetts Avenue NW, Washington DC, 20016.

**New York University**
- **Time**: 5 pm-9 pm, 8th September, 2017
- **Address**: NYU Langone Medical Center, Smilow Seminar Room, 550 First Avenue (Between 31st/32nd Streets), New York, 10016.

**Participating Approach**
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The University of Michigan Division of Infectious Diseases in the Department of Internal Medicine invites applications for a faculty position at the rank of Assistant, Associate, or Full Professor, to develop and conduct independently funded basic and/or translational research programs. We are searching broadly for MD or MD/PhD scientists with an interest in infectious diseases who use cutting-edge technologies to examine questions of scientific and clinical importance. Co-appointment in a basic science department or program is typical for physician-scientists at Michigan.

To apply, more junior applicants are asked to submit a statement of current and future research plans, a description of teaching and clinical experience (as appropriate), curriculum vitae, and contact information for three references to: David Markovitz, MD at dmarkov@med.umich.edu.

More senior applicants are welcome to submit only a curriculum vitae and a cover letter at this time. Review of applications will begin in September of 2017 and continue until suitable candidates are identified.

Women and minorities are encouraged to apply. The University of Michigan is an equal opportunity/affirmative action employer and is supportive of the needs of dual career couples.

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Regional Forum on Research and Innovation

The government of Lombardy – the most important region in Italy, which has Milan as its seat – is seeking 10 experts on the impact that innovation and technological/scientific advancements have on society and the economy.

These chosen experts will make up the Regional Forum on Research and Innovation, an independent scientific body that will consult, make proposals and provide information.

The 10 people will be chosen from among those candidates with the highest qualifications in the scientific, social and humanistic fields.

Candidates must absolutely have proven professional experience in the overall field of the relationship between technology/science and society, including: RRI, Responsible Research and Innovation; STS, Science and Technologies Studies; Public Communication of Science; Participative and Deliberative Methods; Public Engagement; Social Innovation; Social impact and Social Impact Assessment; Sociology of Risk; Sociology of Science; Technology Assessment and Governance; Open Innovation; Open Science; Open Data; Data Ethics; Bioethics.

The forum will serve for three years. It will meet at least four times per year, even virtually. Each member will receive gross compensation of 30,000 euros.

Candidates can apply from 1 September to 30 September 2017. If you would like to be considered, please send your curriculum vitae and an endorsement letter (from institutions, orders and social organisations) to the following email address: fororicercainnovazione@regione.lombardia.it

If you would like more detailed information, please consult the following link: http://www.openinnovation.regione.lombardia.it/eng/regional-forum-on-research-and-innovation
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MEETINGS

40th International Conference of the IEEE Engineering in Medicine and Biology Society

Honolulu, HI

Hawaii Convention Center
Honolulu, Hawaii, USA July 17-21, 2018

CALL FOR PAPERS
Contributed Paper Submission Deadline: 10 January 2018

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