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PEOPLE. PASSION. POSSIBILITIES.
Transitioning fields between a Ph.D. and postdoc

It takes guts to pursue a career in science and even more to switch fields midstream. Executing a disciplinary change between the Ph.D. and postdoc appointment requires thoughtful analysis, research, and due diligence. You have to demonstrate to your new colleagues how your expertise can be a potential boon for their research group, and you have to gain an understanding of the new field and its culture and language. For researchers who have the fortitude to start over in a new discipline and can effectively market their abilities, changing fields can lead to a career homerun. By Alaina G. Levine

Amir Erez is a theoretical physicist who yearned to change the world. “People would ask what I do and I had trouble explaining what impact my condensed matter research could have on our lives,” he says. As a grad student at Ben Gurion University in Israel, he had the chance to work on a collaborative project at Princeton University for a few months when he heard that a biophysics professor from his alma mater was on sabbatical at Memorial Sloan Kettering Cancer Center (MSKCC), about an hour away in Manhattan. He reached out to the scientist and the two hit it off, remained in contact, and 2 years later, Erez suggested that he work with him, under a fellowship from the Human Frontier Science Program, an international nonprofit that support postdocs who move into the life sciences from other disciplines. Now a postdoc at MSKCC, Erez uses techniques from the physics of complex systems to study the dynamics of immune response in the context of cancer. “Suddenly I could ground my research in the real world and not just keep it in the Ivory Tower,” he notes.

The decision to change fields is not always about personal preference. Some professionals do so to ensure their employability. Maria Patterson had been concerned about the narrowing career opportunities for astronomers who wanted to remain in academia. “I knew it was a rough road ahead,” she says, where less than 10% of astronomy postdocs land tenure-track positions in the field. So she began looking at other vocations, including data science. As a graduate student, she was accepted into a fellowship program that exposed her to big data problems, and it was during this experience that she met her future principal investigator (PI), a computational biologist, with whom she began corresponding and discussing potential collaborative projects. She ended up at the University of Chicago in the Center for Data Intensive Science, Knapp Center for Biomedical Discovery, where she currently uses her expertise in spatial analyses to mine electronic medical records for patterns of geospatial clusters of disease. She describes her move as enjoyable as she now uses her skills in novel ways. “In astronomy, as you move up, the topics become very narrow and if I had an impact it would be small and only a few people would know about it,” she says. “But in medicine, the research has the potential to have a great impact on a lot of people.”

Other scientists discover and delve into new disciplines while trying to solve the classic “two-body problem,” in which two academics who have a personal relationship must job search at the same time. Such was the case with Shaun McCullough, a postdoc at the Environmental Protection Agency (EPA). When his wife landed a post in Research Triangle Park (RTP), North Carolina, he became the “trailing spouse” and cast a wide net to find a job in the region. Educated in biochemistry and molecular genetics, McCullough found a home in the Clinical Research Branch of the EPA’s Environmental Public Health Division in RTP, where he conducts both clinical and in vitro cell-based research in toxicology. It wasn’t what he expected to do when he originally chose the life sciences, but he finds his research to be extremely rewarding since toxicology “is constantly evolving to emphasize a broader range of sub-specialties in molecular biology,” he notes. “It needs emissaries from these different fields to work together to find novel and creative ways to answer critical and pressing questions in the field. This need has created opportunities for someone like me, to apply my skills in epigenetics.”

Upcoming Features

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and molecular biology to solving the next generation of problems facing this field.”

Noting differences between fields
As you adjust to a new discipline, there are many challenges to be met. One major difference in any new field is how the experts think about problem-solving. Each field has its own research approaches, which you have to learn quickly when transitioning areas. This requires an abundance of reading papers, speaking with experts, learning techniques, and shadowing colleagues. “The first few months into my postdoc, the only thing I wanted to do was sleep, because it was so much to learn and incredibly mentally exhausting,” says Elizabeth George, a postdoc at the Max Planck Institute for Extraterrestrial Physics near Munich, Germany, who migrated from cosmology with the cosmic microwave background (CMB) to infrared astronomy.

The cultural differences between disciplines can be surprising, even if the science seems to overlap. George’s culture shock manifested as she realized the different approaches to solving scientific problems in astrophysics versus astronomy. “Infrared astronomy is much more traditional astronomy, where you look at objects and try to understand what you are seeing,” she says. “But in CMB cosmology, you start with a model of the universe and only measure one thing—the cosmic microwave background radiation—and try to fit your data to the model.”

In making her transition, Patterson noticed a difference in how data itself is perceived and handled in different subjects. Astronomers are very open with their results, and since astronomical data is shared often, it has a uniform format, no matter the source. But in medicine, the tables are completely turned: data is sensitive and since it is drawn from medical records, there is much more concern over who has access to what. Additionally, “people don’t want to share their data as much, because it is valuable for commercial purposes,” she notes.

Moving from a lab-based science to one that involves patients requires nimbleness and flexibility. “I had never worked with humans before,” says McCullough. “As a molecular biologist, I worked with cells in a dish. They didn’t talk, and they didn’t have to be informed” about the nature and risks of the studies. But in investigating how environmental factors contribute to disease, he had to learn a new protocol and ensure that the subjects understood everything that was taking place. When Ewan Cameron, an astronomer-turned-epidemiologist, “jumped ship” (as he puts it) to become a senior computational statistician in the spatial ecology and epidemiology group in the Department of Zoology at the University of Oxford, he not only began working with human subjects but he also had to learn how to collaborate with nonscientists, such as policy makers and representatives of nongovernmental organizations and nonprofits.

With any disciplinary switch, there’s usually a new language to master. “The jargon barrier can be quite formidable,” notes Erez. “I’m 8 months in to my postdoc, and I’m just beginning to know the right jargon for my neck of the woods, and what the right questions are to ask.”

Diego Fazi, a theoretical physicist who migrated to renewable energy via a postdoc at Argonne National Laboratory (ANL), had to adapt to variances in the manner in which professionals share information. “I used to communicate using quantitative information and theoretically rigorous approaches,” he says, but “during my postdoc I had to deal with more qualitative information and empirical approaches.”

Day-to-day differences can also pop up, especially for those who switch from theoretical to experimental fields. Both Erez and Fazi had never done wet lab work. “Before I came here, I was a theorist with clean hands,” says Erez. Adds Fazi: “I had to learn basic chemical techniques, such as making a solution and setting up an experimental apparatus.”

And of course, “when you switch fields, you incur a time penalty,” notes Erez. “It takes time to settle into a new field,” to learn its nuances and then be able to be productive enough to publish. Adds George: “Changing disciplines feels like you are starting grad school all over again, except that you are a much better learner.” It took her 6 months to “start feeling productive, and to be able to begin asking questions that pushed knowledge forward and were as useful to my colleagues as they were to me.” Erez recommends giving yourself a break as you ramp up your knowledge. “Don’t expect to be as productive in your first year as you would have if you stayed in the same field,” he says.

Making the switch
Whether your switch seems radically different, like physics to immunology, or something seemingly more related, like astrophysics to astronomy, it is important to be ready to market your talents and show what you can offer a new field based on your background. This is especially crucial given the fact that as you transition, you are not necessarily going to be acknowledged for your research reputation, as George...continued>
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discovered as she plotted her move. “In my new discipline, I am a completely unknown quantity. People haven’t read my papers,” she says. To land a postdoc, she pitched her PI that her experience in building and deploying astronomical instruments, unusual for an astrophysicist, could serve as an asset for the new research group.

“Start as early as possible in your planning,” says Erez. Many scientists who change fields launch their career plan in grad school. For example, Patterson took classes in Python and programming. Erez attended biophysics talks at physics conferences as well as on his campus, and engaged himself in papers and books that focused on his newfound subject.

Your grad school mentor might be helpful too, if you can present your switch as an advantage to them to advance their own research interests. In doing so, “you might find that your advisor is inclined to send you to a conference in the field you are interested in,” says Eric Brown, acting deputy division leader of the Materials Science and Technology Division at Los Alamos National Laboratory, whose doctorate is in physics. Furthermore, he recommends leveraging the resources offered by the professional association of your new field. “Many science societies issue reports on demographics, career paths, and employment statistics,” he says, which can be invaluable in the career planning process.

As you transition, you have to establish a connection between your past and your desired future. “Those bridges, of taking what you learned from one area and applying it to another, need to be visible,” says Jason Cooley, who switched from biology to biochemistry and then eventually found his way to the chemistry department of the University of Missouri as a solution to his own two-body problem. He equates it to telling a story with a narrative that explains the natural progression of how you got to where you are today. Without it, “people will think that if you get bored, you will jump somewhere else,” he adds. In George’s case, her narrative showcased her desire to build high-quality scientific instruments, which she had demonstrated as a grad student and which she planned to do as a postdoc.

No matter your story, your publications are your “scientific currency”, so “before you move, write a paper that relates, even in a tangential way, to your future field,” urges Joel Cavallo, a postdoc in psychiatry with a dual appointment as a fellow in the Program of Clinical Pharmacology and Pharmacogenomics at the University of Chicago. As he completed grad school in neuroscience and psychology, Cavallo authored an article on the erasure of associative memories in a sea slug. Because maladaptive learning and associative memories can play a role in mental disorders, this work helped show his dedication to his desired discipline of psychiatry.

**Getting the appointment**

It’s not surprising that, despite your best intentions, it can be difficult to change fields, especially right after grad school. “It wasn’t easy to get a postdoc because most biologist PIs wanted someone with experience in biology,” admits Erez. He was lucky to have found a mentor who appreciated his background in physical science and had experienced a similar transition into the field. “I needed a PI who had a good background in biophysics because otherwise it would be very difficult to communicate, since I didn’t speak the language of biology and he wouldn’t have spoken the language of physics.”

But as more STEM fields become interdisciplinary, sources say that there will be growing opportunities for innovators who can understand and unite multiple universes. Brown notes that it is becoming more common for early career scientists to switch subjects between the Ph.D. and postdoc, as “it’s an opportunity to jump into something that is new and fresh and exciting,” he says. And having the capacity to connect seemingly disparate fields can hold other advantages. Indeed, Fazi, who recently leveraged his postdoc into a full time position at ANL as a technology innovation strategist with a focus on green tech, says that changing course for him “gave me more perspective in science,” he says. “I came out a more complete scientist with more cards to play.”

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Alaina G. Levine is a science writer based in Tucson, AZ.

DOI: 10.1126/science.opms.1500156
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Application deadline: October 15, 2015

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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.

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Overseas Talents Recruitment

Nanjing Tech University, with a history of more than one hundred years, is a multidisciplinary university with a particular strength in engineering.

Aiming at excellence and innovation, Nanjing Tech University is set to become a first-class research university with a global vision. We are now seeking outstanding academic and research leaders in the following and related fields: Basic disciplines from within the Physical Sciences; Cutting edge disciplines from within the Life Sciences; Applied disciplines from within the Information Sciences; Humanities represented by Management Science.

Applicants should have a Ph.D. with at least 3-years research experience from leading universities or institutes. Candidates should demonstrate an internationally recognized research record and outstanding achievements. Successful candidates are expected to develop vigorous research programs and lead an independent research team. Successful candidates will be provided with a competitive relocation fee and salary package, generous start-up funds and spacious laboratories.

Interested candidates should visit http://rczyb.njtech.edu.cn for application details.
Phone: Ms. Wang +86-25-58139148.
E-mail: job@njtech.edu.cn
Faculty Positions Available at Hangzhou Dianzi University

About HDU:
Hangzhou Dianzi University (HDU), located in Hangzhou, a well-known city for its history and culture, is one of the advanced universities in Zhejiang Province, China. There are more than 28000 full-time students and over 2200 faculty and staffs in campus, 1 academicians of the developing country, 5 sharing academicians, 2 young middle-aged outstanding experts, 5 distinguished experts of the “Thousand-talent Project” awarded by the Organization Department of the Central Committee of the CPC, 3 of New Century’s Talent Project, 4 holders of the National Outstanding Youth Fund, 10 of the New Century’s Excellent Talents Project supported by the Ministry of Education, 4 of National Outstanding Teachers and a large number of famous scholars and middle-aged experts with profound academic accomplishments. HDU has developed into a significant institution for its personnel training, scientific research and community service, and holds the lead among the universities in Zhejiang Province in every aspect as the school scale, the education level, the teaching quality and efficiency in school management.

HDU websites: http://www.hdu.edu.cn

Vacancies:

Qualifications:
Applicants with PHD degree from prestigious domestic and overseas universities. Professors or assistant professors or researchers of the equivalent titles, having been working at overseas prestigious universities or research institutes.

Salary, Benefits and Support:
Successful applicant will be offered a competitive package, including sufficient laboratory space, startup funding and competitive salary commensurate with experience, in addition to a housing allowance, and other employee benefits. HDU is recruiting overseas talents all year around. Applicants may refer to the recruitment in our website http://renshi.hdu.edu.cn for further information. For those exceptionally qualified talents, the salary could be negotiated in person.

Contact:
So appreciated for interested individuals sending curriculum vitae by e-mail to rsc@hdu.edu.cn. Or contact us by telephones 86-10-571-86915031, fax 86-(0)571-86915029.

Website: http://renshi.hdu.edu.cn

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2015 Shanghai University Overseas Job Fair (SUOJF 2015)

Time: 14:00-18:00, Saturday, 10 October, 2015
Venue: Grand Horizon Room, Covel Commons, University of California, Los Angeles
Address: 330 De Neve Drive, Los Angeles, USA

Shanghai is an international city with rich opportunities in science, technology and education. In order to attract more talents, Shanghai University has been actively recruiting overseas elites and planning its Overseas Job Fair in 2015.

**University Profile**
Shanghai University is co-sponsored by China’s Ministry of Education and Shanghai Municipal Government. It is listed as a national university of ‘211’ project. Shanghai University has 27 schools and colleges and 2 independent departments with 4 national key disciplines, 11 provincial key disciplines, and 6 disciplines ranked among top 1% of ESI. Currently 12,181 graduate students and 23,036 undergraduate students are studying at Shanghai University. Shanghai University places a great emphasis on the strategy of recruiting elite professionals. It now has 8 academicians, 57 professors and 924 associate professors, and the university is inviting more outstanding academic and research scholars in the related fields to join the family.

**Recruitment of Global Talents**
1. Schools & Colleges: Materials Genome Institute, School of Materials Science and Engineering, School of Sociology and Political Science, Shanghai Film School (School of Film and Television Art & Technology), College of Fine Arts, College of Science, School of Communication and Information Engineering, School of Computer Engineering and Science, School of Mechatronic Engineering and Automation, School of Environmental and Chemical Engineering, School of Liberal Arts, School of Social Sciences, School of Economics, School of Management, etc.
2. Requirements: Professors with outstanding academic achievements and international reputation; associate professors, heads of R&D departments of top multi-national corporations; assistant professors, post-doctors, PhD holders from prestigious overseas universities.

**Application**
If you are interested in joining Shanghai University or attending this Job Fair, please register on http://en.shu.edu.cn/Default.aspx?tabid=23926. You can also send your C.V. to shucareer@oa.shu.edu.cn. We will contact you via your email address.

**Contact Details**
International Office & Human Resources Office, Shanghai University:
Tel: +86-21-66133672; +86-21-66133029; Mobile: +86-18221784505; Fax: +86-21-66743000; Email: shucareer@oa.shu.edu.cn

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High-level Talents Online Job Fair 2015

**The second edition of 2015 will be held on October 19th, from 7AM to 2PM in Shanghai**

Recruitment requirements:
Scholars and doctors with working experience and graduating doctors and overseas students

Please send your curriculum vitae to:
acabridge@gmail.com
chisa.add@gmail.com
chisa.yang@163.com

For more information, please check the following web sites:
http://www.edu.cn/cn
Assistant/Associate Professor in Pharmacology

The Department of Pharmaceutical Sciences at North Dakota State University invites applications for a tenure-track faculty position at the rank of Assistant/Associate Professor, with appointment beginning on or after August 15, 2016. Candidates must hold a doctoral degree in pharmaceutical, physiology, or closely related field, have at least two years of postdoctoral experience with a strong record of scholarship, and possess good interpersonal skills and effective written and oral communication skills. Preference will be given to applicants with training and research expertise in areas that complement existing departmental strengths in cancer and cardiovascular research. The successful candidate will be expected to develop and maintain an innovative, externally funded research program, teach and mentor graduate students, and participate in team-taught pharmacology courses offered to pharmacy students.

A highly competitive salary and a start-up package commensurate with qualifications and experience are available. The Department of Pharmaceutical Sciences has the mission of teaching pharmacy students how basic science is applied to Pharmacy. In addition to teaching professional (Pharm.D.) students, the department has M.S., Ph.D. and Pharm. D./Ph.D. programs and participates in a multidisciplinary Ph.D. program in Cellular and Molecular Biology. Currently, there are twelve research-active faculty, 30 Ph.D. graduate students, and 8 Post-doctoral Fellows/Research Associates in the department. All department faculty are funded by extramural sources such as NIH, NSF, American Heart Association, and pharmaceutical industries. The department also participates on an NIH-funded COBRE grant with the Department of Chemistry. Additional information concerning the department, the university, and Fargo can be obtained at www.ndsu.edu/pharmacy. Review of applications will begin on October 31st, 2015, applications will be accepted until the position is filled. Submit electronically a curriculum vitae, description of research interests and future plans, statement of teaching philosophy and methods, and names and contact information of three references to: http://jobs.ndsu.edu/postings/6686. For further information please contact: Dr. Bin Guo, Department of Pharmaceutical Sciences, e-mail: Bin.Guo@ndsu.edu or 701-231-5164.

NDSU is an Equal Opportunity Institution. Women and traditionally underrepresented groups are encouraged to apply.

TENURE-TRACK PROFESSOR

Harvard University
Faculty of Arts and Sciences
Cambridge, MA
Department of Chemistry & Chemical Biology

Position Description: The Department of Chemistry & Chemical Biology seeks to appoint a tenure-track assistant professor in the open field of chemistry and chemical biology. The appointment is expected to begin on July 1, 2016. The tenure-track professor will be responsible for teaching at the undergraduate and graduate levels.

Basic Qualifications: Doctorate or terminal degree in chemistry or related discipline required by the time the appointment begins.

Additional Qualifications: Demonstrated excellence in teaching is desired.

Special Instructions: Please submit the following materials through the AR1eS portal (http://academicpositions.harvard.edu/postings/6320). Applications must be submitted no later than October 15, 2015.
1. Cover letter
2. Curriculum Vitae
3. Teaching statement (describing teaching approach and philosophy)
4. Outline of future research plans
5. Names and contact information of 3-5 references (three letters of recommendation are required, and the application is complete only when all three letters have been submitted)
6. List of publications

Contact Information: Helen Schwickrath, Search Administrator, Department of Chemistry & Chemical Biology, Faculty of Arts and Sciences, Harvard University, 12 Oxford St., Cambridge, MA 02138. Phone: (617) 496-8190; Helen@chemistry.harvard.edu

Harvard is an Equal Opportunity Employer and all qualified applicants will receive consideration for employment without regard to race, color, religion, sex, sexual orientation, gender identity, national origin, disability status, protected veteran status, or any other characteristic protected by law.

TENURE-TRACK POSITION IN GENOMICS

KECK SCIENCE DEPARTMENT

CLAIREMONT McKENNA, PITZER, AND SCRIPPS COLLEGES

The Keck Science Department invites applications for a tenure-track appointment in biology at the Assistant Professor level to begin July 2016. The department, which houses the biology, chemistry, and physics faculty for Claremont McKenna, Pitzer, and Scripps Colleges (three of the five undergraduate Claremont Colleges), offers innovative and interdisciplinary programs in the natural sciences and provides its students with smaller class sizes and an emphasis on hands-on, investigative learning by students in both classroom and research laboratory settings. The colleges are located near Los Angeles, surrounded by other colleges and universities.

Strong candidates will be committed to excellence in teaching and will develop a vibrant research program that fully engages undergraduate students. Of particular interest are candidates who use genomics-based approaches with an empirical, laboratory component to address important problems in, but not limited to, molecular/cellular biology, plant biology, microbiology, or evolutionary biology. Teaching responsibilities include an upper division course in genomics with bioinformatics, Introductory Biology (cell/molecular), and other courses in the candidate’s field. A Ph.D. degree, post-doctoral experience, and a record of scholarly publication are required.

Please apply online at https://webapps.cmc.edu/jobs/faculty/faculty_opening_detail.php?PostingID=14029. Uploaded materials should include (1) a cover letter, (2) a curriculum vitae, (3) a statement of teaching philosophy, (4) a description of proposed research with equipment needs, (5) a diversity statement (one page) outlining the applicant’s philosophy for fostering a learning environment that is inclusive of all students. Please also ensure that three letters of recommendation are uploaded. Inquiries about the position should be directed to Dr. Emily Wiley at ewiley@kecksci.claremont.edu.

Additional information about the department may be found at www.kecksci.claremont.edu. Review of applications will begin September 21, 2015, and the position will remain open until filled.

In a continuing effort to enrich its academic environment and provide equal educational and employment opportunities, The Claremont Colleges actively encourage applications from women and members of historically under-represented social groups in higher education. The Claremont Colleges are an Equal Opportunity Employer.
The Department of Biological Sciences at Dartmouth invites applications for a full-time, tenure-track position in Neuroscience at the Assistant, Associate, or Full Professor rank. We seek highly qualified candidates using cellular, biophysical, and/or computational approaches to address outstanding research questions at the molecular, cellular, developmental and/or circuit levels of neurobiology. The successful candidate will be expected to direct an independent research program that will attract extramural funding, provide research training for graduate and undergraduate students, and teach at the undergraduate and graduate levels. The successful candidate will join a larger neuroscience community at Dartmouth including faculty in the departments of Physiology and Neurobiology, Biochemistry, and Psychological and Brain Sciences as well as in the Thayer School of Engineering. Department members participate in the Molecular and Cellular Biology graduate program and the Neuroscience division of the Program in Experimental and Molecular Medicine. Both programs are shared with the Geisel School of Medicine at Dartmouth.

Application materials should include a cover letter, curriculum vitae, three representative publications, statements of research and teaching interests, and at least three confidential letters of reference. Please upload application materials electronically to: apply.interfolio.com/30645.

Application review will begin on October 1, 2015 and continue until the position is filled. The following links provide further information about the department http://biology.dartmouth.edu/ and graduate programs http://www.dartmouth.edu/~mc/graduate/.

Dartmouth College combines a commitment to innovative scholarship with dedication to excellent teaching. One of the most diverse institutions of higher education in New England, Dartmouth College is an Equal Opportunity/Affirmative Action Employer, has a strong commitment to diversity, and in that spirit encourages applications from all individuals regardless of gender, race, religion, color, national origin, sexual orientation, age, disability, or veteran status.

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The Department of Cell Biology and Molecular Genetics at the University of Maryland College Park is seeking to fill a tenure-track faculty position at the level of Assistant Professor in the area of Virology using animal or plant systems.

The successful candidate will be expected to maintain a cutting-edge externally funded research program in the area of virology that synergizes with existing core groups in the molecular and cellular biological sciences at UMD. Areas of synergy include molecular genetics, genomics and gene regulation, RNA structure and function, immunology and pathogenesis, cell biology and plant biology. The appointed candidate will also participate in undergraduate and graduate teaching. Applicants must have a doctorate degree, an outstanding publication record, and a commitment to excellence in teaching.

The University of Maryland, College Park is the flagship campus of the University System of Maryland. Close proximity to Washington DC, Baltimore, and the Maryland Biotechnology Corridor facilitates interactions with an extraordinary range of major research institutions such as NIH, NIST, FDA, USDA and ICVI, in addition to providing a rich cultural environment.

Applications should be submitted electronically to http://jobs.umd.edu/postings/15601 and addressed to Dr. Jeffrey DeStefano, chair of the faculty search committee. Applications should consist of a single PDF file containing (1) a cover letter, (2) curriculum vitae, (3) summary of research plans (maximum two pages) and teaching philosophy (one page), and (4) contact information for at least three references. Complete applications should be received by October 15, 2015, but will be accepted until the position is filled.

The University of Maryland is an Affirmative Action/Equal Opportunity Employer. Women and members of underrepresented groups are especially encouraged to apply.
ASSISTANT PROFESSOR ANALYTICAL, PHYSICAL OR BIOPHYSICAL CHEMISTRY CALIFORNIA STATE UNIVERSITY EAST BAY

The California State University, East Bay (CSUEB) Department of Chemistry invites applications for a tenure track ASSISTANT PROFESSOR position in Analytical, Physical or Biophysical Chemistry (#16-17 CHEM-ANALYTICAL/PHY/BIOPHYS-TT) for the 2016-2017 academic year. The successful candidate must have teaching experience and a strong commitment to teaching. Applicants are expected to establish an externally funded research program appropriate for undergraduate and M.S. students pursuing a chemistry curriculum. Teaching responsibilities may include introductory and advanced lecture and laboratory courses such as basic chemistry, general chemistry, quantitative analysis, environmental chemistry and advanced topics in specific areas. A Ph.D. is required; postdoctoral research and teaching experience in chemistry are preferred. Applicants must submit, via regular mail, hard copies of a cover letter specifying the position number, a curriculum vitae, a one-page statement of teaching philosophy, a brief research plan (3 pages max.), and undergraduate and graduate transcripts to Dr. Ann McPartland, Chair, Department of Chemistry and Biochemistry, California State University, East Bay, Hayward, CA 94542. Applications must also submit the cover letter and curriculum vitae electronically at website: https://csuebweb.csueastbay.edu/psp/HEBPRD/EMPLOYEE/HRMS/c/HRS_HRAM.HRS_CGEBL and arrange to have three letters of recommendation sent to Dr. McPartland via US mail or electronically to mcpartland@csueastbay.edu.

CSUEB, an Equal Opportunity Employer, is committed to the principles of diversity in employment.

CHIEF BIOLOGY FACULTY POSITION Boston College Chemistry Department

The Chemistry Department of Boston College invites applications for a tenure-track position to be effective in the fall of 2016. This is a University-year appointment. Information about the Center can be found at website: http://www.bostoncollege.edu/.

Required Qualifications: Candidates must have a Ph.D. in Chemistry or related areas; postdoctoral experience in research or teaching is preferred. The candidate must have experience in molecular chemistry, biochemistry, and theoretical chemistry, and an internationally recognized faculty position. Successful candidates in other areas of Chemistry will be considered.

Interested applicants must submit a cover letter (which includes the names of three references), a curriculum vitae, a summary of research plans (8 pages maximum), a statement of teaching philosophy and a plan to have three letters of reference submitted via the online faculty application website: http://apply.interfolio.com/30499.

All application materials must be submitted electronically on or prior to October 1, 2015.

Boston College, a university of eight schools and colleges, is an Equal Opportunity Employer and supports Affirmative Action.

FACULTY POSITION

The Department of Molecular & Cellular Physiology invites applications for a tenure track position at the level of Assistant Professor. Successful applicants will be expected to develop an independent, nationally funded research program and to contribute to the education mission of the Department. Research areas are open, but preference will be given to individuals with an interest and record of achievement in the cardiovascular sciences. Information about the departmental research focus is available at website: http://www.shreveportphysiology.com. A generous startup package and appropriate space will be provided. Applications are encouraged from candidates with a Ph.D. degree and relevant postdoctoral experience. Applications will be reviewed as they are received; the position will be filled. Send curriculum vitae and names of three references to D. Neil Granger, Ph.D., Boyd Professor & Head, Department of Molecular & Cellular Physiology, LSU Health Sciences Center, 1501 Kings Highway, Shreveport, Louisiana, 71130-3932, FAX: 318-675-6005, e-mail: dgranger@lsuhsc.edu.

Louisiana State University Health Science Center – Shreveport is an Equal Opportunity Employer and 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.
MEDICAL SCHOOL
UNIVERSITY OF MICHIGAN

Faculty Positions
Department of Pharmacology

The Department of Pharmacology at the University of Michigan Medical School invites applications for two tenured/tenure-track positions at the ASSISTANT, ASSOCIATE or FULL PROFESSOR level. We are seeking outstanding individuals with research experience and interests that augment current department initiatives in the areas of G protein-coupled receptors or Pharmacogenomics. Qualifications include a Ph.D. in Pharmacology or a related discipline and/or a M.D. degree, and for those applying above the level of Assistant Professor, a strong record of nationally competitive external funding, a sustained record of excellent research productivity, and an outstanding national reputation in their field of interest. Physician-Scientists are encouraged to apply, as joint appointments are available with clinical departments. Applicants will be expected to maintain extramural funding, participate in the teaching of medical, graduate, and undergraduate courses, and to support and mentor graduate students and postdoctoral fellows. An attractive startup package including excellent laboratory space and generous funding is available. Salary will be commensurate with experience.

The successful candidates will join a dynamic, diverse, and collaborative department with new leadership in a Top 10 Medical School in a university setting with superb opportunities for continuing career development. The quality of life in Ann Arbor is outstanding. The combination of a large, major research university with a diverse, safe, family-oriented community make Ann Arbor an ideal environment for work-life balance. Ann Arbor offers an outstanding combination of sports, recreation, and cultural events.

Applicants should send a cover letter stating the position and subject area for which they are applying and the names and contact information of three referees, their curriculum vitae, a three-page summary of their research program and future research plans, and information related to past and current teaching experience as a single PDF file to jmدم@umich.edu. Address all correspondence to: Dr. John Traynor, Chair, Pharmacology Faculty Search Committee, Department of Pharmacology, The University of Michigan Medical School, 1150 West Medical Center Dr., Ann Arbor, MI 48109-5632.

Review of applications will begin on October 1, 2015, and will continue until both positions are filled.

The University of Michigan is an Affirmative Action/Equal Opportunity Employer. Applications from qualified women, minorities and/or disabled individuals are encouraged.

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Cell and Molecular Biologist/ Biochemist
Tenure -Track Faculty Position
Biology Department

The Biology Department at Williams College, a premier liberal arts college with a long-standing tradition of excellence in the sciences, invites applications for a tenure-track position at the rank of Assistant Professor, to begin July 2016. We are especially interested in candidates who can contribute to the intellectual vibrancy and diversity of the academic community through their research, teaching, and service, and who are committed to working effectively with a broadly diverse student population.

We seek a biochemist or molecular biologist whose research interests in protein structure and function emphasize protein complexes and networks. The candidate’s research should incorporate state-of-the-art methods and address questions of broad biological significance to cells, organisms and evolution. The successful candidate will teach upper level courses in his or her area of specialty, a metabolic biochemistry course, and contribute to our introductory course in cellular and molecular biology. This individual will advise undergraduates in research and participate in interdisciplinary programs in Biochemistry & Molecular Biology, and/or Bioinformatics, Genomics & Proteomics. Normally, faculty members teach one course and two associated laboratory sections (or the equivalent) each semester.

A dynamic research program that is attractive to extramural funding agencies and involves talented undergraduates is expected. Start-up funds and internal funding for research are available. A Ph.D., postdoctoral experience, and a strong research record are required. We anticipate the appointment at the beginning assistant professor level, although a more senior appointment may be possible under special circumstances.

All applications should be submitted through Interfolio at http://apply.interfolio.com/30712. Email and paper applications will not be accepted. Through Interfolio submit: a letter of application addressed to Professor Joan Edwards (Chair, Biology Department), a curriculum vitae, concise statements of teaching and research plans, and three current letters of recommendation. All offers of employment are contingent upon completion of a background check http://faculty.williams.edu/prospective-faculty/background-check-policy/. Application deadline is October 23, 2015.

Williams College is a coeducational liberal arts institution located in the Berkshire Hills of western Massachusetts. The College has built its reputation on outstanding teaching and scholarship and on the academic excellence of its approximately 2,000 students. Please visit the Williams College website (http://www.williams.edu). Beyond meeting fully its legal obligations for non-discrimination, Williams College is committed to building a diverse and inclusive community where members from all backgrounds can live, learn, and thrive.

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ScienceCareers

To book your ad: advertise@sciencecareers.org
The Americas
202-326-6582
Europe/ROW
+44(0)1223-326500
Japan
+81-3-3219-5777
China/Korea/Singapore/Taiwan
+86-186-0082-9345

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Two Faculty Career Features

September 18, 2015
Reserve ads by September 1
Ads accepted until September 14

October 9, 2015
Reserve ads by September 22
Ads accepted until October 5

For recruitment in science, there’s only one
Science

Why choose these faculty features for your advertisement?

- Relevant ads lead off the career section with special Faculty banner
- September 18 issue will be distributed at the Biotechnica Meeting in Hanover, Germany, 6–8 October.