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sciencecareers.org SCIENCE
Alternatives to professorships in academia

If you’re a Ph.D. scientist who loves academia but doesn’t want to become a professor, don’t fret—there are plenty of diverse and challenging career paths to be pursued in institutions of higher learning that don’t require a faculty appointment.

By Alaina G. Levine

Like many Ph.D. scientists, Latanya Scott had made it her personal mission to help people through research. She envisioned a career as a faculty member to achieve this objective.

Scott pivoted slightly, thinking that working in Big Pharma might be more in tune with her nature. She pursued a postdoc at the Moffitt Cancer Center in Tampa, Florida, in cancer drug discovery. Yet, “I felt I wasn’t realizing my purpose,” she says. “Bench science can be very rewarding when you have a breakthrough, but a lot of times, experiments fail. It made me question whether I was making enough of an impact toward our mission to prevent and cure cancer. I wanted to find a way to help as many [therapeutic] strategies and technologies as possible get to the patients.” Ultimately, she recognized that being a professor might not give her the opportunity to be as influential as she desired, so she started looking for other career avenues.

One of Scott’s requirements for a new vocation was that she still had to be involved in the research enterprise in some manner. Bolstered by her principal investigator, she started exploring the profession of technology transfer. Informational interviews with staff in this field led to an internship at Moffitt’s Office of Innovation and Industry Alliances, and ultimately a job offer as a licensing associate. Today, Scott continues to work toward her goal of advancing human health as the senior industry alliance development manager for the sprawling cancer research hospital. In the last 24 months, she has assisted in securing more than $35 million in research funding for Moffitt scientists by helping forge basic and translational research collaborations between clinicians, scientists, and industry. “I see the extraordinary value these preclinical projects and resulting technologies offer now and in the future,” she says. “So I feel like I am helping make strides to finding cures someday. I’m playing a role in moving the science forward to benefit cancer patients everywhere.”

Those with doctorates naturally first look to the professoriate as their career choice. After all, they’ve seemingly spent eons in academia, have gotten to know—and in many cases love—the culture, and have been mentored their entire career by faculty. But what many Ph.D.s may not realize is that becoming a professor is simply one of the paths available in the academy. Indeed, universities and similar research institutions provide a fertile foundation for crafting multiple career paths, and offer diverse opportunities.

Catalyzing a new career

So what are the different career paths a Ph.D. scientist can pursue in academia? An obvious first choice is to serve as a scientist or technical professional in university departments. These positions can be based in disciplinary departments, such as physics. Alternatively, as is the case in some large research universities, they can be based in their own divisions, where Ph.D.s can serve as in-house consultants who help to solve scientific and technical problems for researchers.

As the use of big data becomes increasingly effective and popular, more universities are forming groups and subgroups that focus on big data problem solving, which in turn is spurring the creation of new employment opportunities for scientists with expertise in this arena. For example, Nick Cross, a staff scientist for the University of Edinburgh’s Institute for Astronomy in the United Kingdom, develops software to process and archive imaging and other data from large astronomical surveys.

Big data jobs are often uncovered accidentally through networking, as Jean Davidson discovered. With a doctorate in molecular and cell biology, she originally came to Stanford University to pursue a postdoc. When her appointment came to a close, a colleague rolled his chair over to her one day and suggested her for a data scientist job with the Stanford-based Data Coordination Center of the ENCODE (Encyclopedia of DNA Elements) Consortium, an international collaboration of research groups funded by the...
“I love seeing all kinds of science and not just what I saw at the bench. I get a broader overview and perspective in a lot of different fields now.”

—Christina Papke

National Human Genome Research Institute at the U.S. National Institutes of Health (NIH) in Bethesda, Maryland.

“I wasn’t sure I was qualified, coming from a purely experimental biology background,” says Davidson, “but luckily this team was looking for a more science-focused person to join the team to inform the data questions.” Today, as a “data wrangler” (her official title), she collaborates with different labs around the country to “best capture and model the metadata of experiments, think about how the scientific community should access the data, and work to spread the utility and application of ENCODE.” Knowledge gathering of this type involves developing databases, so she leverages skills in programming and knowledge of cloud-based computing, most of which she gained on the job. “This position is a great opportunity to stay in academic science, but in a different, nontenure track,” she says.

**Staying involved in research**

Scientists who aspire to fuel the research engine find that pursuing a job managing core facilities (essentially the lab equipment and instrumentation) of a university is a smooth ride. Core facilities can be university-wide, or can be housed in a specific department. While at first glance these positions may seem to be focused only on operations, they still satisfy the drive many core facility managers have to be involved in research.

Ross Potter, laboratory manager in the department of physiology at Midwestern University in Glendale, Arizona, got his job because “they were interested in getting someone with an M.S. or a Ph.D. to build and expand the research program,” he notes. But once they got wind of his expertise—he had done postdocs in immunology and receptor signaling at Vanderbilt University and at the Mayo Clinic in Scottsdale, Arizona, respectively—they changed the job description a bit and made the offer to me to expand the position to manage the research building.

Since his hiring in 2012, this dedicated health science university has increased its lab space and now has two research buildings, which Potter oversees. He manages all of the shared equipment, from confocal microscopes to freezers, and is responsible for maintaining and developing policies for using the facilities. He also serves as a liaison between the research staff and faculty/administration.

But like many core facility directors, Potter also has the chance to use the equipment to conduct research, a privilege also enjoyed by Ralph J. Garippa, director of the RNAi Core Facility at Memorial Sloan Kettering Cancer Center (MSKCC) in New York City. Garippa worked for over two decades in industry and was recruited by MSKCC to launch the core because of his expertise in high-throughput biological research techniques. He arrived in 2012 and now oversees a team of eight scientists (including two Ph.D.s and one M.D.) who support researchers with resources and tools related to RNA interference (RNA) and CRISPR gene-editing technologies. Investigators engage his core facility with a research project in mind and a need to use equipment that is under his supervision, but “most of the time they want to compose the research with us and then have us do it, because we are experts in the assay development and automation-assisted techniques,” notes Garippa. “We are also experts in troubleshooting and fine-tuning this specialized research.” In some instances, he also has the chance to present at conferences about not only the techniques utilized but the research itself. Additionally, “our core chooses to spend a minimum of 20 percent of our time working on new technologies,” he adds, which allows him to tap into his innate curiosity even more.

Grant management and writing and research development are other avenues that draw directly on doctorates and allow scientists to stay connected to the research enterprise. Christina Papke, Ph.D., a research development officer in the Research Development Services department at Texas A&M University (TAMU), revels in the fact that her job blends science with communications and strategic planning. She is able to dabble in the tasks she enjoys most, such as critiquing and editing NIH grant proposals, and providing training and related services on grant writing for TAMU investigators. Papke also facilitates the establishment of multidisciplinary research groups across the university, which contributes to TAMU’s strategic plan to advance its grant portfolio. “Our goal is to promote a high level of collaboration across disciplines and increase competitiveness for larger, [more] complex interdisciplinary grant opportunities,” she says. “I love seeing all kinds of science and not just what I saw at the bench. I get a broader overview and perspective in a lot of different fields now, and I really enjoy [the fact] that I still get to be involved with the research.”

**Keeping a toe in the professorial pool**

For scientists who consider it a necessity to remain associated with the professoriate, there are several job paths that can be pursued in academia. You might not think a deanship is possible without a faculty appointment, but Lisa M. Kozlowski would argue otherwise.

She’s the associate dean for student and postdoctoral affairs at Thomas Jefferson University in Philadelphia, Pennsylvania. Although she now has a joint appointment as a faculty member, she did not come into her deanship that way. Rather, she was hired for her knowledge of career development for early career scientists, which she honed as a leader in the postdoctoral association at her postdoc institution. It was only later that she renegotiated for a faculty post, something she advises others to do, preferably during the initial negotiations, for both the credence and benefits such as tenure.

For Amy Replogle, science core facility technician at the University of Puget Sound in Tacoma, Washington, keeping her toe in the professorial pool takes the form of teaching lab classes occasionally. Similarly, Benjamin Porter’s staff title is Academic Program Officer II, but he unofficially serves as the assistant head of the Department of Bioengineering at the University of Texas at Dallas. “I’m not faculty, but I help run the department,” he says. His portfolio of...
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“The recognition I get now is from the people I work with, that they like to work here, and that’s recognition enough. You have to look for a different kind of reward.”

—Benjamin Porter

responsible for hiring and supervising staff and helping the department with accreditation, to event management, outreach, and even some media relations.

Leaving on research experience

Even though they do not serve as professors, researchers who pursue other academic paths note that their intensive training—in grad school, postdoc appointments, and other experiences—prepares them uniquely for the challenges of their new positions. “I lean a lot on my previous experience as a cancer researcher to review research protocols, conduct risk assessments, and add my ‘oops, been there, done that!’ to the trainings,” says Sonia Godoy-Tundidor, assistant biosafety coordinator at the University of Vermont in Burlington.

“I always bring out real-life examples of things I or someone else did wrong from the biosafety point of view when I worked at the bench. This usually impacts people and gets the message across.”

Furthermore, the fact that these researchers received a Ph.D. gives them a certain level of currency in the academic marketplace. “My Ph.D. gives me confidence in speaking with faculty,” says Papke. “[They know] I’ve done research, I’ve applied for grants. It does lend some credibility, especially since I was entering this [undertaking] without experience in this field.”

However, a barrier still exists between faculty and nonfaculty at universities, as Paula Hennon, program manager for the North Carolina Institute for Climate Studies at North Carolina State University in Asheville, attests. As a Ph.D. atmospheric scientist (and an M.B.A.), “I’ve always had challenges being viewed as legitimate because I had a nonacademic plan,” she shares. “As the deputy director of the technical support unit for the National Climate Assessment, I finally stopped questioning ‘my worth’ and second-guessing my path. Scientists need an advocate, a guide through the administrative quagmire, and a voice. They should prepare to hold on for the ride, as they will be the most misunderstood but potentially most valuable contributors to their scientific community or workplace.”

Preparing for employment opportunities

One especially important feature of these nonfaculty jobs is their reliance on a diversity of skills, from management and communications to budgeting and planning. Yes, professors need to know how to write too, but unlike faculty, hiring decisions for nonfaculty academic positions are driven by the candidates’ business and technical abilities.

So Kozlowski suggests that candidates should “get involved in things outside the lab, such as your institution’s grad student or postdoc associations, where you can gain leadership and organizational skills.” Porter helped launch the Washington, DC chapter of the Society for Neuroscience, which gave him excellent preparation for his current job.

Kozlowski also advises to do what you can to intimately learn the culture of academia—don’t just rely on your experience in a lab in grad school. “As a member of the postdoctoral association at Johns Hopkins, one of the benefits I got was the ability to sit in on faculty senate meetings and hear about strategic plans for the coming years,” she says. In doing so, she “got a feeling for how universities work.”

Passing on the Nobel Prize

Ph.D. scientists in nonprofessorial positions are essential cogs in ensuring that universities remain successful and competitive. But that doesn’t mean some who choose these professions don’t mourn certain aspects that are tied to being a professor. “When you move out of research, you have to let go of the prestige of writing papers or getting the Nobel Prize, and that takes some getting used to,” says Porter. “The recognition I get now is from the people I work with, that they like to work here, and that’s recognition enough. You have to look for a different kind of reward.”

Echoes Davidson: “You may feel you are giving up if you deviate from the [professorial] track, but there are still great careers out there [in academia] where you can be a scientist. Although I miss being at the bench, I don’t work many weekends and I have a better work–life balance. I didn’t think I’d find a position like this that provided such balance and allowed me to contribute to science.”

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

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4. Teaching statement (describing teaching approach and philosophy)
5. Future research plans
6. 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)

Contact Information: Helen Schwickrath, Search Administrator, Department of Chemistry and Chemical Biology, Harvard University, 12 Oxford St., Cambridge, MA 02138, Phone: 617-495-8190; 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, national origin, disability status, protected veteran status, or any other characteristic protected by law.

Open Rank Protein Biophysics/Structural Biology  
Faculty Position  
Department of Physiology and Biophysics

We invite outstanding individuals to apply for a faculty position at any rank in the area of Protein Biophysics and/or Structural Biology. Mid-career scientists with outstanding accomplishments at the level of Associate Professor or full Professor are especially encouraged to apply. We are particularly interested in applicants who are using interdisciplinary approaches to work on basic or translational aspects of human diseases. Visit our website at http://Biophysics.case.edu.

The Department and School have excellent infrastructure, including x-ray crystallography, solution NMR spectroscopy, cryo EM and EPR spectroscopy (see http://csmb.case.edu).

Applicants for a position as Assistant Professor should have a Ph.D. and/or M.D. degree, 3-5 years postdoctoral experience, and a strong record of scholarly activity. Competitive candidates for Associate Professor should have a strong publication record and an international reputation. Competitive candidates for Professor should have achieved records of leadership in the profession and have a substantial record of scholarly publications.

Applicants should submit a cover letter, a full Curriculum Vitae, including a record of prior/current funding, a brief description of their research, as well as the contact information for three professional references. Candidates at the Assistant Professor level should also submit a research plan. Please submit application materials with separate file attachments by email to: Dr. Walter F. Boron, Chair, Department of Physiology and Biophysics, Case Western Reserve University, BiophysicsSearch@case.edu

In employment, as in education, Case Western Reserve University is committed to Equal Opportunity and Diversity. Women, veterans, members of underrepresented minority groups, and individuals with disabilities are encouraged to apply. Case Western Reserve University provides reasonable accommodations to applicants with disabilities. Applicants requiring a reasonable accommodation for any part of the application and hiring process should contact the Office of Inclusion, Diversity and Equal Opportunity at 216-368-8877 to request a reasonable accommodation. Determinations as to granting reasonable accommodations for any applicant will be made on a case-by-case basis.

Yale University  
School of Medicine

FACULTY POSITION AT THE ASSISTANT PROFESSOR LEVEL

DEPARTMENT OF CELLULAR AND MOLECULAR PHYSIOLOGY

The Department of Cellular and Molecular Physiology is conducting a search for new faculty members at the assistant professor level.

The search seeks candidates whose research connects the properties of molecules to the properties of physiological systems.

Excellent opportunities are available for collaborative research, as well as for graduate and medical student teaching. Candidates must hold a Ph.D., M.D., or equivalent degree. Applicants should include a curriculum vitae, a statement of research interests and goals, and should arrange to have three letters of reference sent. Applicants should apply at the following website: apply.interfolio.com/36676

Application Deadline: October 14, 2016

Yale University is an Affirmative Action/Equal Opportunity Employer and welcomes applications from women, persons with disabilities, covered veterans, and members of minority groups.
Assistant Professor (Tenure Track) of Ecology and Evolution in Forest Ecosystems

The Department of Environmental Systems Science (www.usys.ethz.ch) at ETH Zurich invites applications for the above-mentioned position.

The assistant professor develops and leads an internationally recognized research programme in “Ecology and Evolution in Forest Ecosystems” and is expected to integrate into research activities in related fields at ETH Zurich. He or she will use any relevant experimental, comparative and/or theoretical approaches to explore ecological and/or evolutionary processes that affect the composition, diversity, structure, dynamics and function of forest communities. The search is not limited to plant-based research, hence scientists working with non-plant forest components are encouraged to apply.

The new professor will teach in the Master of Environmental Sciences programme, offering subjects in Forest and Landscape Management that are also relevant to Ecology and Evolution. Undergraduate level courses are taught in German or English and graduate level courses in English.

Assistant professorships have been established to promote the careers of younger scientists. ETH Zurich implements a tenure track system equivalent to other top international universities.

Please apply online at www.facultyaffairs.ethz.ch

Applications should include a curriculum vitae, a list of publications, a statement of future research and teaching interests, the names and contact details of three referees, and three of your most important achievements. The letter of application should be addressed to the President of ETH Zurich, Prof. Dr. Lino Guzzella. The closing date for applications is 31 October 2016. ETH Zurich is an equal opportunity and family friendly employer and is further responsive to the needs of dual career couples. We specifically encourage women to apply.
The Rockefeller University seeks exceptional, interactive, and creative scientists to join its faculty. We invite applications from outstanding candidates for tenure-track positions.

The University has a laboratory-based organizational structure that fosters interdisciplinary research. We encourage applications in the following areas:

- Chemical & Structural Biology
- Genetics & Genomics
- Immunology, Virology & Microbiology
- Medical Sciences, Systems Physiology & Human Genetics
- Molecular & Cell Biology
- Neurosciences & Behavior
- Organismal Biology & Evolution
- Physical, Mathematical & Computational Biology
- Stem Cells, Development, Regeneration & Aging

The Rockefeller University provides strong support for the research work of its faculty, including competitive salary, a range of work-life employee benefits, start-up funds, renovated laboratory space and access to state of the art core facilities. There are extensive opportunities for collaboration both within the University and with neighboring institutions.

Visit [http://www.rockefeller.edu/facultysearch](http://www.rockefeller.edu/facultysearch) to submit your application online and view further information about the positions.

Application deadline is September 30, 2016.

If you have any questions regarding your application, please contact our Administrator at facultysearch@rockefeller.edu.

The Rockefeller University is an Equal Opportunity Employer that values diversity at all levels - Minorities/Women/Disabled/Veterans.

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**Hiring Faculty?** Whatever your timing, we’ve got two special features for your faculty ads this fall! The September 16 feature offers advice on how to develop skills for reviewing grants and papers. The October 7 feature covers business principles for researchers. Reach *Science* readers and share opportunities at your university.

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- October 7 issue will be distributed at the American Society of Human Genetics meeting, 18–22 October, Vancouver.

* Ads accepted until Sept 9 and Sept 30 if space allows.

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Faculty Director, Bioinformatics Core
Biomedical Research Core Facilities & Department of Computational Medicine and Bioinformatics

The University of Michigan Medical School (UMMS) Biomedical Research Core Facilities (BRCF) and the Department of Computational Medicine and Bioinformatics (DCM&B) are seeking a Faculty Director for its well-established Bioinformatics Core. The Core’s central mission is to provide bioinformatics support to investigators in the basic and clinical departments of UMMS and in other schools or colleges. The Core represents a vital connection between basic and translational research at the U-M.

The current focus of the Core is to develop and implement computational services to analyze high dimensional biological research data. Major Core functions include study consultation; genomics, multi-omics, and bioinformatics analysis; data storage and organization; data analysis and visualization; delivery of results, and performing related educational activities.

The Faculty Director will be appointed as a tenure-track or tenured instructional-track faculty in DCM&B. As a faculty member in DCM&B, the Director will maintain an independently funded research program that contributes to the growth of high-throughput molecular data analysis. We believe that such active research is essential for maintaining the Core’s long-term vision, ensuring close connection with cutting-edge methodological development, and upholding scientific rigor for all studies under Core support.

The Faculty Director is expected to create a strategy to initiate, optimize, and expand services needed by the researchers, both routine and custom. Supported by strong administrative staff of the BRCF, the Director will lead a team of professional bioinformaticians, developers, analysts, and IT specialists, to create and constantly update a robust service portfolio, which includes management and analysis of data from microarray, DNA and RNA sequencing, qRT-PCR, ChIP-seq, ATAC-seq and related epigenomic analyses. Such data are typically produced at the U-M DNA Sequencing Core. The Core will also engage with other units in BRCF to integratively analyze metabolomics, genome editing, microbiome, metagenomics, epigenomics and proteomics data. Extensive computational resources and database infrastructure are already in place.

Requirements:
- PhD in bioinformatics, biostatistics, epidemiology, computer science, engineering, or related field. Applicants with a biology or medicine background but extensive subsequent training in data-intensive quantitative research also qualify.
- Postdoctoral experience in statistical analysis of complex ‘omics data, preferably in a biomedical research environment. Prior experience in multi-disciplinary collaboration or managing Core support is a plus.
- Demonstrated abilities in research, including technical knowledge, broad understanding of genomic application areas, and evidence of creativity and scientific vision.
- Extensive experience with high-throughput genomics data, including computing experience in a Unix/Linux environment; programming proficiency.
- Ability to communicate clearly, directly, and tactfully with faculty and staff in diverse fields.
- Organizational skills, especially in a multi-tasking environment.
- Demonstrated leadership experience with proven personnel and financial management.

Please send a letter of interest with Curriculum Vitae, statement of research interests, and contact information of three or more references to: Search Committee, Department of Computational Medicine and Bioinformatics, Job Code 300, The University of Michigan, 2017 Palmer Commons, 100 Washtenaw Ave, Ann Arbor, MI. 48109-2218, email: ccmbrecruit@umich.edu. Applications will be reviewed September 2016 until the position is filled.

http://www.ccmb.med.umich.edu/; https://medicine.umich.edu/medschool/research/office-research/biomedical-research-core-facilities/bioinformatics

Department of Computational Medicine and Bioinformatics
Tenure-track positions (all ranks)

The Department of Computational Medicine and Bioinformatics (DCM&B) at the University of Michigan Medical School seeks outstanding applicants for tenure-track and tenured faculty positions in computational medicine and bioinformatics. DCM&B (http://www.ccmb.med.umich.edu/) has 13 primary, 13 joint, and 80 affiliate faculty, and is closely associated with the Michigan Institute for Data Science (MIDAS.umich.edu) as well as many basic science and clinical units and departments across the medical school and the university. DCM&B hosts the Bioinformatics Graduate Program which has ~60 PhD and >20 Master students, with 58 PhD alumni. DCM&B hosts NIGMS bioinformatics and NC1 proteome informatics pre-doctoral T32 training grants. We have active national outreach for minority candidates, in partnership with the NIH Research Centers for Minority Institutions (RCMI) program. DCM&B has grown rapidly in both faculty publications and sponsored research, with a six-fold increase in grant funding in the past three years.

We are currently recruiting 1 senior and 3 junior to mid-career faculty members to establish independent research programs that address emerging challenges in analyzing large, complex datasets. Innovative researchers in the areas of bioinformatics, computational biology, and advanced methodological development as applied to biomedical research are encouraged to apply. Several areas of programmatic interest will receive special consideration:
- Cancer bioinformatics
- Translational bioinformatics as applied to studies of complex diseases
- Biomedical data science methodology, including, but not limited to, natural language processing, machine learning, and visualization.

Joint appointments may be considered with the Michigan Institute for Data Science (MIDAS), the Comprehensive Cancer Center, departments of Human Genetics, Learning Health Sciences, Biomedical Engineering, partnering clinical departments, Computer Science; Schools of Information and Public Health; and other appropriate units. There are extensive computational resources and data science infrastructure available. Opportunities exist for faculty leadership roles to influence institutional priorities in clinical and biomedical informatics.

Successful candidates will have a PhD and/or MD degree, or equivalent, with post-doctoral training, in areas such as (but not limited to) biomedical data mining and machine learning; multi-scale integrative omics analysis; systems biology; natural language processing and ontologies applied to biomedicine; informatics related to healthcare delivery and clinical decision support; precision medicine and pharmacogenomics. Publications, funding record, a detailed research plan, collaborative experience, and demonstrated interest in graduate and post-doctoral education will be essential components of the application.

Applicants should send a letter of interest with Curriculum Vitae, Research Plan, and a list of three or more references with current contact information to: Search Committee, Department of Computational Medicine and Bioinformatics, Job Code 200, The University of Michigan, 2017 Palmer Commons, 100 Washtenaw Ave, Ann Arbor, MI. 48109-2218, email: ccmbrecruit@umich.edu. Applications are accepted in September 2016 – May 2017.

Ann Arbor has a remarkable cultural and living environment. The University of Michigan is responsive to the needs of dual-career families, and is an Equal Opportunity Affirmative Action Employer committed to a diverse and inclusive faculty, staff and student body.
ASSISTANT PROFESSOR

The Department of Chemistry and Biochemistry at the University of Oregon invites applications for either a tenure-track Chemistry faculty position or a tenure-track Chemical Biology faculty member, at the Assistant Professor level to begin in Fall 2017 or later. A Ph.D. is required.

ASSISTANT PROFESSOR - Biochemistry/Chemical Biology

Application research at the University of Oregon takes place in the context of the Institute of Molecular Biology (http://molbio.uoregon.edu) which promotes interdisciplinary interactions between researchers in all the departments of Chemistry and Biochemistry, Biology and Physics. We seek applicants from all areas of molecular biology who are using advanced approaches to study modern problems in cell biology, epigenetics, protein machines and grand challenges in RNA and protein biochemistry. New faculty will join a rich and collaborative atmosphere with existing strengths in host-pathogen interactions, stem cell biology, organelle biogenesis, genome function, and cytoskeleton biochemistry.

ASSISTANT PROFESSOR - Chemical Biology

We seek applicants with research interests focusing on the development and/or use of chemical tools and approaches to address fundamental questions in biology and medicine. Applicants are encouraged who are working in all areas of chemical biology, particularly in applications of synthetic chemistry to topics such as bio(organic) chemistry, bioorthogonal chemistry, molecular sensing, metals in medicine, synthetic biology, directed evolution, and imaging. New faculty will join a rich and collaborative atmosphere between chemists, biologists, and physicists including interdisciplinary opportunities with the Institute of Molecular Biology (website: http://molbio.uoregon.edu) and the Materials Science Institute (website: http://materialscience.uoregon.edu), and complement strengths in organic synthesis, materials chemistry, and bio(organic) chemistry within the department.

Successful candidates will have the potential for establishing an outstanding independent research program and excellence in teaching at the undergraduate and graduate levels. They will also support and enhance a diverse learning environment.

To assure full consideration, application materials should be received by October 10, 2016. Please apply at website: https://academicjobsonline.org/ajo/jobs/7667 and upload a curriculum vitae, a statement of research plans and objectives (maximum 10 pages), and a brief statement of teaching philosophy or interests (1-2 pages). The candidate should also arrange for three letters of recommendation to be submitted directly by the recommenders.

Review of application materials will continue until the position is filled.

Note: Of the University of Oregon Department of Chemistry and Biochemistry is currently searching for faculty candidates in Physical Chemistry (website: http://chemistry.uoregon.edu).

The University of Oregon is an Equal Opportunity, Affirmative Action Institution committed to cultural diversity and compliance with the ADA. The University encourages all qualified individuals to apply, and does not discriminate on the basis of any protected status, including veteran and disability status.

CHEMICAL 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 2017. Applicants will be evaluated based on their potential to establish a prominent and well-funded research program and to excel in teaching at the undergraduate and graduate levels. Successful applicants will join a department of approximately 120 doctoral students, 30 postdoctoral fellows, 200 undergraduate majors, and an internationally recognized faculty.

Assistant Professor in the area of Chemical Biology requires a Ph.D. in a related field. Postdoctoral experience is desirable but not required. The candidate is expected to have published in top refereed journals and demonstrated the ability to perform outstanding independent research.

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

All application materials must be submitted electronically on or prior to October 15, 2016. Boston College, a university of eight schools and colleges, is an Equal Opportunity Employer and supports Affirmative Action.

ASSISTANT PROFESSOR

Hope College seeks applications for a TENURE-TRACK POSITION in Developmental Biology at the Assistant Professor level to begin August 2017. The successful candidate will have a Ph.D. and be expected to develop a vigorous, externally funded research program with active participation by undergraduate students. Hope College offers its Biology faculty a competitive salary and benefit package, in addition to excellent start-up support. Please visit website: www.hope.edu/employment/faculty for a full job description and to apply. Applications received by October 1, 2016 will be assured full consideration.

ASSISTANT PROFESSOR

ASSISTANT PROFESSOR OF CHEMISTRY OR BIOCHEMISTRY

CALIFORNIA STATE UNIVERSITY EAST BAY

The California State University, East Bay (CSUEB) Department of Chemistry and Biochemistry invites applications for a tenure-track Assistant Professor position in any area of chemistry, including biochemistry (#17-18 CHEM-CHEMISTRY-IT). The successful candidate must have solid training in chemistry 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 or biochemistry curriculum. Teaching responsibilities will include General Chemistry, both lecture and laboratory, and additional courses at the undergraduate and/or graduate level to the applicant’s area of expertise. A Ph.D. is required; postdoctoral research and teaching experience in chemistry or biochemistry are preferred. Applications should include a letter of interest which addresses qualifications, a current curriculum vitae, a one-page statement of teaching philosophy, a brief research plan no longer than three pages, and scanned copies of undergraduate and graduate transcripts. Materials should be submitted electronically at website: https://apply.interfolio.com/35591. Three letters of recommendation are required and should be submitted electronically. Letters can be requested as instructed on the application website (+Add File under Confidential Letter). Review of applications will begin October 10, 2016, and continue until the position is filled. The start date is September 1, 2017. CSUEB, an Equal Opportunity Employer, is committed to the principles of diversity in employment.

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 strongly encourage applications from members of 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 online at website: http://princeton.jobs/apply. All application materials must be submitted electronically on or prior to October 15, 2016. Candidates should arrange for three letters of recommendation to be submitted directly via the preceding URL link. The position will remain open until filled.

The University of Oregon is an Equal Opportunity, Affirmative Action Institution committed to cultural diversity and compliance with the ADA. The University encourages all qualified individuals to apply, and does not discriminate on the basis of any protected status, including veteran and disability status.

The Department of Chemistry at the University of Oregon is an Equal Opportunity, Affirmative Action Employer. All qualified applicants will receive consideration for employment without regard to race, color, religion, sex, national origin, age, color, physical or mental handicap, veteran status, or on any other characteristic protected by law. This position is subject to the University’s background check policy.

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Washington State University

Plant Community Ecology -- Assistant Professor
School of Biological Sciences, College of Arts and Sciences

The School of Biological Sciences at Washington State University, Pullman, Washington, invites applications for a full-time, permanent, tenure-track faculty position in plant community ecology. This position is to be filled at the Assistant Professor level and will begin in August of 2017. Candidates should have research experience in plant community ecology. Areas of interest include, but are not limited to, the distribution and abundance of plants, species interactions, and/or the stability and assembly of biological communities. The ideal candidate will combine traditional and cutting edge approaches that shed light on ecological processes. Candidates with sophisticated quantitative skills and the ability to bridge both small and large spatial scales are especially encouraged to apply. Candidate research programs should consider pressing contemporary and future issues, with the potential to inform our understanding of local and global responses to global change.

Required qualifications include an earned doctorate at time of application, a record of research accomplishment in plant community ecology, evidence of a commitment to teaching excellence including the ability to teach undergraduate and graduate courses such as community ecology, effective communication skills, and demonstrated ability to collaborate with other scientists. Successful candidates will be expected to develop and maintain an active research program supported by extramural funding, train graduate and undergraduate students in research, participate in graduate and undergraduate teaching, participate in service needs, and advance our commitment to diversity and multiculturalism.

To apply, visit www.wsujobs.com to upload application materials. Applications must include a cover letter that addresses qualifications, a curriculum vitae, separate teaching and research statements, and up to three selected reprints of published or in press papers. Three (3) letters of recommendation that address the applicant’s history of and potential for research, teaching, and communication excellence are required. The reference letters will be automatically requested and obtained from the reference provider through our online application system. Review of applications begins October 24, 2016.

For information on the position or the status of your application, candidates may contact Dr. Jeremiah W. Busch at jwbusch@wsu.edu. Full notice of vacancy can be viewed at https://www.wsujobs.com

EEO/AA/AD

Medical School
University of Michigan

Faculty Positions in Cancer Pharmacology
Department of Pharmacology

The Department of Pharmacology at the University of Michigan Medical School is seeking applications for tenured/tenure-track positions at the ASSISTANT, ASSOCIATE or PROFESSOR level. We are seeking outstanding individuals with research experience and interests in cancer pharmacology, oncology therapeutics, and precision medicine in oncology. 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. Physician-Scientists are encouraged to apply, as joint appointments are available with clinical departments and the University of Michigan Comprehensive Cancer Center. 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 startup funds 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 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 jdanif@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., 2301 MSRB III, Ann Arbor, MI 48109-5632. Review of applications will begin on October 1, 2016, and will continue on a rolling basis until 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.