A novel target for accelerating drug development: Biomedical science training
Cherie Butts¹ and Avery August²

D emand for a qualified biomedical science workforce to tackle the challenges of making better medicines remains high; however, few scientists and clinicians learn about drug development during their training. To assist trainees with appreciating differences between basic science (understanding disease mechanisms) and applied science (drug development), Biogen and the Cornell Broadening Experiences in Scientific Training (BEST) program convened a conference in June 2018 at the Biogen headquarters in Cambridge, Massachusetts (#Biogen BESTDDConf2018).

Purposeful outcomes
Participants were introduced to the drug development process (from concept to approval), and sessions were led by individuals from across Biogen, who offered insight on their roles—including how they support project teams. The topics included asset management, biomarker development, business and data analytics, clinical development, medical affairs, portfolio management, protein engineering, and regulatory affairs and policy (Figure 1). In addition, participants served on teams that generated a business case and recommendations for progression of a mock project to the next drug development stage (Figure 2).

Refining and reframing
A new training model is needed to strengthen and refine the necessary skills for those who wish to translate new biomedical discoveries into beneficial drugs. More trainees with the right experience will increase the pace of drug development, reducing the burden of debilitating medical conditions on society. Such a reframing of the training experience will positively change the conduct of science and expand the ways that meaningful contributions to biomedical science are defined. This conference emphasizes the importance of experiential learning and serves as a model for such training.

Selection process
Participants were identified primarily from academic institutions with U.S. National Institutes of Health (NIH) BEST programs (www.nihbest.org; https://commonfund.nih.gov/workforce), as they are familiar with biopharma career pathways. Trainees* were exposed to key drug development questions, different roles in and out of the laboratory or clinic, and skills needed to be successful in biopharma. To ensure that information from the conference extended beyond those who attended, a requirement was that trainees share key concepts with others at their home institutions.

Unique approach
The average time for developing a new drug is approximately 12 years and costs over USD 1 billion, predominantly due to failures at each stage of drug development (1). An appropriately trained workforce is one mechanism for accelerating timelines and reducing the risk of failure. As many biomedical sciences training programs do not offer activities related to drug development, trainees must opt for additional specialized fellowships (ranging in duration from several weeks to a few years) or transition to industry with little knowledge of the skills necessary to be successful in this sector. As an initiative of Biogen’s Portfolio Transformation, a short-term, intensive conference was developed to demystify drug development for academic trainees. The goal was to create a model for similar events across the country.

High-performing project teams are a hallmark of biopharma, but are less common in academia (2). Conference activities, therefore, focused on providing participants with a project-team experience that highlighted key drug development questions; stage-appropriate composition of project teams; the importance of team dynamics and of maximizing the strengths of each member; and how the biopharma ecosystem supports project teams.

For additional information and to explore future opportunities with this drug development training model, please contact the authors: cherie.butts@biogen.com and averyaugust@cornell.edu.

References

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Department of Biological Engineering
Faculty Position in Comparative Medicine

The MIT Department of Biological Engineering, in partnership with the MIT Division of Comparative Medicine, invites applications for a tenure-track faculty position at the Assistant Professor level, to begin July 2019 or thereafter. A more senior position may be considered in special cases. Teaching responsibilities will be in subjects within the Department’s undergraduate and graduate curricula and compatible with his or her research expertise. Applicants should hold a DVM from an AVMA-accredited institute, or an MD, and/or a PhD in a discipline which applies molecular/cellular biology to the study of the microbial/host interface in health and disease with interests in microbial pathogenesis, microbiome bioinformatics, immunology, or pathobiology. The selected candidate will develop and sustain vigorous extramurally funded research programs, supervise graduate students, develop course materials and teach graduate-level subject(s). He or she may also teach undergraduate subjects.

To Apply:
Candidates must register with the BE search website at http://be-fac-search.mit.edu, and must submit application materials electronically to this website. Candidate applications should include a description of professional interests and goals in both teaching and research. Each application should include a curriculum vitae and the names and addresses of three or more references who will provide recommendation letters. References should submit their letters directly at the http://be-fac-search.mit.edu website.

Applications received by 1st December 2018 will be given priority.

Questions may be directed to: Prof. Douglas Lauffenburger, Head, Department of Biological Engineering, MIT 16-343, Cambridge MA 02139, lauffen@mit.edu

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Department of Biological Engineering
Faculty Position in Molecular/Cell Biophysics

The MIT Department of Biological Engineering invites applications for tenure-track faculty positions at the assistant professor level, to begin July 2019 or thereafter. Applicants should hold a Ph.D. in a science or engineering discipline related to biological engineering. A more senior faculty appointment may be considered in special cases. Candidates should aspire to direct a leading research program that fuses molecular/cellular biology with quantitative engineering analysis/synthesis approaches. Areas of high priority include molecular and cell biophysics, with applications in quantitative measurement and modeling of biological processes. Faculty duties include teaching at the graduate and undergraduate levels as well as oversight of research, conducting original scholarly research, and developing course materials at the graduate and undergraduate levels. Candidates should be able to instruct in the core biological engineering educational curricula.

Candidates must register with the BE search website at http://be-fac-search.mit.edu, and must submit application materials electronically to this website. Candidate applications should include a description of professional interests and goals in both teaching and research. Each application should include a curriculum vitae and the names and addresses of three or more references who will provide recommendation letters. References should submit their letters directly at the http://be-fac-search.mit.edu website. Applications received by 1st December 2018 will be given priority.

Questions may be directed to: Prof. Douglas Lauffenburger, Head, Department of Biological Engineering, MIT 16-343, Cambridge MA 02139, lauffen@mit.edu

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Beyond government grants: Widening your funding net

“Don’t put all your eggs in one basket” is sound financial advice for both investors and researchers. Supplementing government grants with support from foundations, industry partners, and crowdfunding means that scientists must learn to navigate new fundraising systems. But they may also gain connections to broader, science-related communities. By Chris Tachibana

“Single-origin”—referring to a product that comes from one specific location, crop, or supplier—is now a trend for coffee and chocolate, but science funding is moving toward diversification. The reason? The proportion of U.S. R&D supported by federal funds fell from nearly 70% in 1973 to below 60% in 2016, according to a U.S. National Science Foundation report (1). Nonprofit and private organizations such as the Bill & Melinda Gates Foundation fill the funding gap for some researchers, while others explore options such as direct pitches to industry partners, investors, and crowdfunding donors.

Financial security is just one reason to diversify funding. Small awards from institutional sources, foundations, or crowdfunding can replace money lost to budget cuts. Supplemental funding can also support preliminary data collection for a larger proposal. Additionally, industry or investor partners may provide both funding and business mentoring for a scientist whose project has commercial potential. Or researchers can endorse open science while raising money on crowdfunding and science-challenge platforms. This article explores alternative funding resources that supplement or replace traditional government mechanisms.

Broadening your funding base

Nicole Achee, research associate professor in biological sciences, University of Notre Dame, Indiana, has a compelling reason to vary her funding sources. Her research goes “from lab to field,” using laboratory assays to evaluate methods to control insects that carry diseases, then testing the effectiveness of those methods where disease occurs. In addition to support from the U.S. Department of Defense, the U.S. Agency for International Development, the U.S. National Institutes of Health, and industry, Achee’s team is receiving about USD 14 million from the Bill & Melinda Gates Foundation for work on Aedesborne viruses such as dengue and Zika.

“The more diversified your funding,” Achee says, “the more you have to be aware about what is due and when.” Government funding is often timed to the fiscal year, she says, but foundations may have completely different schedules. A competent program manager to track paperwork and deadlines is critical.

To broaden a funding base, Achee advises following news from organizations that specialize in your field and regularly searching for novel funders that fit your research. Work with your institution’s development and grants office to find opportunities with industry partners, private foundations, and nongovernmental organizations. Companies such as Instrumentl provide this service for a fee.

Once you have money from a donor organization, Achee says, you may be asked to serve on their committees and panels. “Say yes,” she advises. “You’ll be part of discussions that shape the research agenda, and you’ll hear about upcoming funding calls.” People you meet through these activities can lead to further connections. “It opens the door to larger networks of funding opportunities,” she adds.

Researchers can also network through their own teams. A multidisciplinary, international group ensures diverse expertise and perspectives—and possibly funding as well, notes Achee. Some foundations give awards only to researchers based in certain countries, but these scientists can participate in global collaborations.

Thinking creatively about potential funders can pay off. An agricultural or brewing industry association might fund fungal genomics or chemical analysis of water or soil, for instance. The American Chemical Society (ACS) Petroleum Research Fund supports Manny Curotto, professor and chair of chemistry and physics at Arcadia University in Pennsylvania, in his fundamental research on quantum methods, a field that is relevant to energy storage.

The fund gives nearly 200 grants a year, totaling USD 17 million in 2017, and is part of a larger ACS program cont.>
supporting research and education. Curotto finds that the funding process and paperwork are similar to what is required for government grants, although if you’re used to the submission system of a particular agency, he advises, expect to spend time learning the quirks of a new system.

Curotto tells early-career researchers at primarily undergraduate institutions to look into awards from the U.S. National Science Foundation, Camille & Henry Dreyfus Foundation, and Research Corporation for Science. “And don’t give up,” he says. Funding agencies want to see that recipients can manage a grant and deliver what they have proposed, so “it always looks better if you’ve had other grants.” Internal institutional awards help researchers demonstrate competence in grant management, and can also aid them in getting preliminary data for external grants.

Fundraising through public engagement

Researchers with projects that appeal to the public can explore crowdfunding, which is asking for donations (or sometimes offering equity in a startup enterprise) through an online platform. Crowdfunding is best known for sites such as Kickstarter, where celebrities raise millions of dollars for humanitarian projects. However, scientists can select from research-specific platforms, including some in German, French, and Japanese. Researchers create a site on the platform describing their project in text, photos, and videos, then campaign for donations until their deadline is reached, usually a few months later. Some platforms are all-or-nothing, with researchers receiving donations only if they reach a self-imposed goal; others send all money raised. Platform fees are usually a percentage of funds raised. Some, but not all, offer donor gifts such as a lab tour.

Experiment (formerly Microryza) is one of the first science-specific crowdfunding sites. Although one campaign driven by an exceptionally extensive network raised USD 2.6 million to study Batten disease, a fatal, inherited disorder of the nervous system, the average amount raised is about USD 4,100. Cindy Wu, Experiment cofounder, says that crowdfunding is an efficient way to raise seed funding, and emphasizes that the process is more transparent and less restricted than traditional mechanisms. “Grad students often tell me that Experiment gave them the freedom to work on their idea without tailoring it to a grant or foundation,” she says. A 2018 National Bureau of Economic Research working paper shows that crowdfunding supports projects initiated by people who don’t usually get grants. More than 60% of Experiment crowdfunders at educational institutions were students or postdocs.

Crowdfunding worked for Olwen Grace, a scientist at the Royal Botanic Gardens, Kew, United Kingdom. Like Achee’s research, her study on the evolution of succulent plants spans both field and lab work. She needs a broad funding base to cover activities ranging from traveling for sample collection and habitat observation to analyzing data in her London laboratory.

In 2016, Grace ran a successful crowdfunding campaign to fund sequence analysis of plants related to Aloe vera. Because it often contributes ingredients to skin-care products, aloe is “a charismatic plant,” says Grace, and her colleagues urged her to use it to crowdfunding her work on desert plant evolution. Her campaign raised GBP 10,700, which Grace says could have come from a few small grants, “but this boost of a single grant from the crowdfunding campaign allowed us to do the work much faster.”

Grace used the Crowd.Science (formerly Walacea) platform. Natalie Jonk, Crowd.Science cofounder, says crowdfunding has two parts. The first is creating a campaign page that’s appealing to backers. The second, harder task is attracting people to that page by thinking carefully about outreach. “It’s a bit of a chain reaction,” she says, “building trust by getting your friends, family, and peers to promote you. People further down the chain like to see that a project has funding before they contribute.”

Grace recalls that the effort of preparing the campaign video, researcher bios, and website was less stressful than grant writing. However, when the campaign was live, “it required constant attention,” she says. Teamwork, including help from fundraising experts at the Royal Botanic Gardens, Kew, was crucial, especially for “passing the social media baton,” to ensure that someone was always promoting the campaign online and monitoring responses.

An overarching goal of science crowdfunding is community building and raising public interest in research. Grace sends regular research reports to her backers. These are like grant progress reports, she says, but have “a lighter touch,” and include explanations of techniques and results for nonscientists. Sometimes she has to report that “we’re still working on it,” but honest communication is the point. “The donors are expressing interest in our work, so the least we can do is show them what it looks like when we do our research,” she adds.

Crowd.Science offers researchers who campaign on its platform the additional service of seeking support on their page.
The Division of Biological Sciences at the University of California, San Diego (www.biology.ucsd.edu) invites applications from outstanding candidates for the following faculty positions. All candidates must have earned a Ph.D. or equivalent degree, and be committed to teaching at the undergraduate and graduate levels. In addition to excellence and creativity in research and scholarship, successful candidates must also demonstrate a commitment to equity and inclusion in higher education. We are especially interested in candidates who have created or contributed to programs that aim to increase access and success of underrepresented students and/or faculty in the sciences, and/or have detailed plans to accomplish such goals.

Computational & Theoretical Neuroscience: The Section of Neurobiology invites applications for a faculty position in Computational and Theoretical Neuroscience at the tenure-track Assistant, or tenured Associate or Full Professor level. Candidates who investigate the function and dynamics of neuronal circuits by the development of mathematical models, computer simulations, or novel approaches to data analysis and information processing are encouraged to apply. Solely theoretical research programs as well as those with a wet-lab component will be considered. The Neurobiology Section is a highly interactive group that seeks colleagues who complement existing strengths.

Host/Microbe Interactions: The Section of Molecular Biology invites applications for a faculty position in Host/Microbe Interactions at the tenure-track Assistant Professor level. We are broadly searching for applicants working towards a mechanistic understanding of microbiomes, host-microbe interactions, and/or microbe-microbe interactions. Research topics could include, but are not limited to, beneficial or antagonistic interactions of viruses, bacteria, archaea, protozoa, or fungi with each other or their hosts. This position will complement existing strengths in this area.

Microbial Ecology: The Section of Ecology, Behavior and Evolution invites applications for a faculty position in Microbial Ecology at the tenure-track Assistant Professor level. We are broadly searching for a microbial ecologist. Research topics could include, but are not limited to, soil microbial community structure and function, plant-microbe interactions, and the role of microbiomes in species interactions in nature. This position will complement existing strengths in this area.

Neural Circuits: The Section of Neurobiology invites applications for a faculty position in the broad area of Neural Circuit Studies at the tenure-track Assistant Professor level. Candidates should employ state-of-art technologies to address fundamental questions related to the development, function and disease of the nervous system. Our faculty are engaged in a number of areas of neuroscience research, including molecular/cellular/developmental neurobiology, neural circuit dissection, and neural systems and behavior. The new faculty member will have ample opportunities for rich intellectual interactions with highly supportive Section colleagues while developing his/her independent research program.

Plant Biology: The Section of Cell & Developmental Biology invites applications for a faculty position in Plant Biology at the tenure-track Assistant, or tenured Associate or Full Professor level. Candidates studying any plant species are welcome to apply. Research focused on mechanistic understanding is especially encouraged. This highly interactive group is looking for colleagues who will bring novel approaches, either technical or conceptual, to their study of plant biology.

Review of applications will commence on October 26, 2018 and will continue until all positions are filled. Interested applicants must submit a cover letter, curriculum vitae, statement of research, statement of teaching, a statement describing their past experience and leadership in fostering equity and diversity and/or their potential to make future contributions, and 3-5 publications. Applicants at the Assistant Professor level need to submit 3-5 references, and applicants at the Associate or Full Professor level need to provide contact information for 3-5 references. Applications must be submitted through the University of California San Diego’s Academic Personnel RECRUIT System at: https://apol-recruit.ucsd.edu/apply.

The Division of Biological Sciences at UC San Diego is a vibrant center of scientific discovery, innovation, and collaboration. Our large research base spans many areas of biology and has one of the most celebrated graduate programs in the country. We are committed to academic excellence and diversity within the faculty, staff, and student body.

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behalf from philanthropists and businesses interested in their work. For example, outdoor equipment suppliers might support environmental projects. “Often scientists don’t think of business sponsors as an option, and they don’t know how to approach corporate marketing or social responsibility departments,” says Jonk. The success of this strategy varies, but she hopes that as the platform grows, their sponsor network will expand. “We’ve had about 5,000 people back projects, and Experiment has had more than 40,000,” she says. “When that figure is a million, we’ll have a community we can reach out to with projects we know are interesting to them.” Jonk’s vision is to tailor outreach to groups as large as hundreds of thousands of people who have backed similar projects.

The Experiment platform also offers possibilities beyond just crowdfunding. Campaigns may be eligible for challenge grants in which projects within a field such as botany or archaeology compete to attract the most donors for a bonus award. In honor of Earth Day 2018, the CAA Foundation, the philanthropic arm of the entertainment industry’s Creative Artists Agency, fully funded nine environmental projects on the Experiment site for a total gift of USD 25,000.

Attracting a global audience for foundations and other funders is the mission of Thinkable, founded by Ben McNeil, climate researcher at the University of New South Wales in Australia. Giving away money is harder than you might think, McNeil says. Established foundations have their own platforms and networks for attracting proposals, but smaller foundations, philanthropists, academic institutions, companies, and nonprofit organizations often need help promoting their awards. “Everyone is so consumed by information,” McNeil comments, “that funders need targeted, efficient channels to find their audience. We provide a community they can reach out to. We try to get funders’ causes and scientists’ research in front of as many eyeballs as possible.”

Thinkable’s services include hosting a funder’s campaign page and offering guidance about application forms and judging. The model has been compared to HeroX, which runs problem-solving challenges, except that Thinkable is focused on research, McNeil says. Thinkable helps scientists who are part of the platform’s community match their research to funding opportunities. And scientists who participate in contests inevitably raise the profile of their research, notes McNeil.

Thinkable users include companies that want maximum publicity for a science prize and universities holding a contest to motivate researchers to make and share videos showcasing their science. An example is the World Science Festival Brisbane’s annual Queensland Women in STEM Prize, for which each applicant supplies a page with a video, McNeil says. The award site gets more than 100,000 views, so “everyone who applies is a winner.”

McNeil’s ultimate goal aligns with science crowdfunding: opening science to the public and helping researchers connect with a broader audience. He is particularly motivated to support young scientists doing multidisciplinary, high-risk research.

Researchers whose projects have commercial potential can find another audience. McNeil observes, “In my view, the biggest source of potential new funding comes from industry groups looking to partner with researchers and startups around the world.” Global matching of researchers and industry partners is part of Thinkable’s services. Researchers can also pitch directly to industry funders and investors.

**Biotech big leagues**

Researchers with potentially marketable life science projects and business ambitions can get a four-day introduction to the biotechnology world at annual trade conferences hosted by the Biotechnology Innovation Organization (BIO).

A feature of the annual BIO International Convention, which boasted more than 18,000 attendees in 2018, and of the BIO World Congress on Industrial Biotechnology, is BIO’s One-on-One Partnering system. BIO’s director of partnering products and services, Willie Reaves, says the system is also available at other conferences, including regional biotech meetings. Participants in the system create a profile with text, images, and video, peruse profiles of industry R&D and business-development representatives from around the world, and then make appointments for 30-minute meetings during the conference they will be attending. At the BIO International Convention, meetings happen in 600 booths in a sportfield-sized area, Reaves explains. Scientist-inventors may be represented by their institute’s technology transfer office, or they can attend themselves. The point of the meetings, he says, “is to spark conversations or follow up on a previous contact to discuss commercialization.” Scientists who are ready to launch a startup can request space from science parks and incubators in the partnering system. The atmosphere is intense—there were 3,900 partnering companies and 46,916 meetings at the 2018 conference, for example—but attendees can handle that atmosphere can be productive. “One participant,” Reaves says, “said he made as many contacts that week as he did during the entire year.”

The BIO International Convention has an academic area for university researchers and people interested in partnering with them. Researchers who have advanced to the startup stage might participate in investor pitching at a startup stadium and get advice from industry and investor judges.

Government funding is still the cornerstone of research support, but scientists have other options. Success with these options requires identifying, interacting with, and participating in communities of foundations, investors, or citizens interested in your field. A critical element is to align your project with the funder’s scope, whether it is a foundation, industry, or individual donor. Reaves says that “specificity and targeting” are critical, and those who have tried the alternate-funding route advise being persistent to find the right fit.

**References**


Chris Tachibana is a science writer based in Seattle, USA, and Copenhagen, Denmark.
Faculty Positions at the Sloan Kettering Institute
Memorial Sloan Kettering Cancer Center

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University of Pittsburgh

FACULTY POSITIONS
Center for Vaccine Research

The Center for Vaccine Research (CVR) of the University of Pittsburgh invites outstanding scientists to apply for up to four tenure-track faculty positions at Assistant and Associate Professor levels. This interdepartmental center seeks to recruit faculty working on BSL-2, BSL-3 pathogens and/or select agents who are focusing on understanding the pathogenesis of infectious diseases with a view to translating this knowledge to the early stage development of creative interventions against clinically-relevant human and animal pathogens. Applicants with research interests in rational attenuation, predictive vaccinology, the novel delivery of biopharmaceuticals or who use platform-based approaches to mitigate emerging infectious diseases would be ideally aligned with the mission of CVR.

The University of Pittsburgh is currently ranked number three nationally for NIH funding. The center encompasses approximately 20,000 square feet of space, including the Regional Biocontainment Laboratory, and offers comprehensive accommodations for BSL-2, BSL-3 and BSL-3+ work. Biocontainment facilities include ten dedicated laboratories permitting in vitro work on select agents; an aerobiology core for computerized quantitative aerosol exposure in animal models; four fully equipped ABSL-3 facilities for in vivo infection and challenge studies; a necropsy suite and state-of-the-art multimodal whole animal imaging capabilities.

Applicants must hold a PhD (with or without DVM, MD) and postdoctoral research experience. Successful candidates are expected to have, or to establish independent, nationally and internationally recognized, externally funded research programs and contribute to teaching in graduate and/or professional curricula.

Salary, rank, and academic appointment will be commensurate with qualifications and experience. Competitive start-up, compensation and benefits packages are available.

Learn more about the work in the CVR by visiting our website: www.cvr.pitt.edu

Applicants should submit i) a cover letter ii) a statement of research accomplishments and plans iii) a curriculum vitae and iv) the names and contact information for at least three professional references to the CVR Search Committee c/o W. Paul Duprex, PhD, Director Center for Vaccine Research via CVRInfo@pitt.edu (subject line: CVR Faculty Search).

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Yale University

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The Department of Genetics at Yale University School of Medicine is searching for a Professor of Genetics with an outstanding record of transformative scientific achievements in Human Genetics and Genomics. We expect that the candidate will lead a vigorous cross-disciplinary research program focused on identifying and characterizing genetic drivers of human disease. As a leader of human genetics both within the department and across the Yale School of Medicine, the successful candidate will have the opportunity to recruit other human geneticists to the Genetics Department and lead a new program in precision medicine as the Scientific Director of the Yale Center for Personalized Medicine and Genomic Health.

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To apply, please submit your CV to http://apply.interfolio.com/45539 to the attention of Dr. Antonio Giraldez, Chair of Genetics. Applications will be reviewed until the position is filled. Inquiries should be addressed to nelija.brewster@yale.edu.

Tenure-Track Faculty Position
(Head/Associate/Assistant Professor)

The Department of Genetics at Yale University School of Medicine invites applications for junior or senior tenure-track faculty positions. The search is open to investigators from all areas of biological and biomedical research. We are particularly interested in applicants working in one of the following areas: Developmental Biology, Imaging, Quantitative Biology, Computational Biology, Genomics, Systems Biology, and Genetics. Applications from investigators working at the interface of these areas will be strongly considered. The rank of the appointment will be commensurate with experience and the positions come with a substantial start-up package.

The Department of Genetics comprises an exceptional group of 31 primary basic science faculty with research interests including fundamental aspects of Developmental Biology, Genetics, Genomics and Epigenetics, using different model systems including flies, worms, fish and mouse, and humans (https://medicine.yale.edu/genetics/). The Department is closely associated with science initiatives at Yale including The Cancer Center, The Center for Neuroscience, The Stem Cell Center and the Yale Center for Genome Analysis.

Candidate must hold a Ph.D., M.D., or equivalent degree. Applicants should upload a cover letter, a curriculum vitae, a description of previous research (1 page), a concise statement of research plans (up to 2 pages), reprints of 2 publications, and the names and addresses of three references to the Interfolio website at: https://apply.interfolio.com/52614. Specific inquiries about the position may be sent to the attention of Dr. Antonio Giraldez, Chair of the Department of Genetics, at genetics.admin@yale.edu. Applications will begin to be evaluated on November 1, 2018.

Interviews will take place as part of a multidisciplinary symposium including candidates for different searches. Please reserve the dates of January 15, January 22 and February 11 (snow date) as potential dates for the symposium in case you are selected for an interview.

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Faculty Positions in Integrative Biosciences

Wayne State University (WSU) is recruiting up to 15 faculty (open rank) for research and development programs as part of the continued expansion of a broad institutional initiative in Integrative Biosciences. This initiative leverages a new 200,000 sq. ft. Integrative Biosciences Center (IBio) that houses coordinated inter- and trans-disciplinary research teams, and a Clinical Research Center. Programmatic themes include a focus on pathophysiology and accumulated stressors affecting health in evolving urban environments with a strong emphasis on basic disease mechanisms, clinical translation and community health impact.

Ten faculty have been recruited to date as part of the IBio initiative and we are now entering the next phase of thematic-based, programmatic growth. Faculty recruitment (tenured, tenure-track, or research-track) will focus on six primary thematic areas: Behavioral Health (#043728), Bio & Systems Engineering (#043729), Environmental Sciences and Health (#043725); Health Disparities (#043726); Metabolic Diseases (Cardiovascular, Diabetes and Obesity) (#043727); and Translational Neurosciences (#043730). Each theme includes basic discovery-driven research as well as translational, community and implementation sciences cutting across departments, programs, centers, and colleges.

Faculty recruits (tenured or tenure-track) will integrate with departments and colleges or schools consistent with their areas of expertise and shared interests and engage in all aspects of our academic mission including research, education and service. Faculty are expected to either already have established extramural research funding and/or are on a clear path to secure and sustain extramural funding in support of their research programs.

Candidates must have a Ph.D., M.D., Pharm.D. and/or related degree(s) in disciplines aligning with the focus areas and possess a demonstrated track record of exceptional science, creative discovery and/or knowledge translation and application. We would be pleased to receive applications from groups of faculty from one or several institutions who may wish to work together. Qualified candidates should submit applications to the specific thematic position posting # identified above through the Wayne State University Online Hiring System https://jobs.wayne.edu/applicants/jsp/shared/Welcome.css.jsp. Applications should include a curriculum vitae and a brief narrative describing their research and how it relates to the Integrated Biosciences initiative (http://www.IBio.wayne.edu) with a cover letter addressed to the IBio Steering Committee Chair, Stephen M. Lanier, Ph.D. Vice President for Research. Review of applications for the next phase of recruitments will begin immediately with applications accepted through October 30, 2018. Competitive recruitment packages are available with salary and rank based on qualifications.

Wayne State University, which holds the highest Carnegie Foundation for the Advancement of Teaching designations in both research and community engagement, is a premier, public, urban, comprehensive research university located in the heart of Detroit where students from all backgrounds are offered a rich, high quality education. Our deep-rooted commitment to excellence, collaboration, integrity, diversity and inclusion creates exceptional opportunities for students and faculty in a diverse, global society. WSU encourages applications from women, people of color, and other underrepresented people. Wayne State is an Affirmative Action/Equal Opportunity Employer.

Founded in 1868, Wayne State University offers more than 370 academic programs through 13 schools and colleges to nearly 28,000 students. The campus in Midtown Detroit comprises 100 buildings over 200 acres including the School of Medicine, the Eugene Applebaum College of Pharmacy and Health Sciences and the College of Nursing. The university is home to the Perinatology Research Branch of the National Institutes of Health, the Karmanos Cancer Center, a National Cancer Institute-designated comprehensive cancer center, and a National Institute of Environmental Health Sciences Core Center - Center for Urban Responses to Environmental Stressors (CURES).

Faculty Positions in Environmental Health Sciences

As part of a broad institutional initiative in integrative biosciences and environmental health sciences, Wayne State University (WSU) and the Institute of Environmental Health Sciences (IEHS) are recruiting up to three faculty positions (tenured or tenure-track, open rank). The program in environmental health sciences fosters interdisciplinary, integrative, and collaborative approaches to environmental disease prevention with primary areas for recruitment as follows.

- environmental epidemiology
- mechanisms underlying environmental exposure-mediated toxicities
- life-course factors affecting environmental health risk
- predictive modeling of toxicant exposure and health outcomes

WSU and the IEHS serve as headquarters for the Center for Urban Responses to Environmental Stressors (CURES), a National Institute of Environmental Health Sciences supported core center. CURES is situated in the heart of Detroit in the new Integrative Biosciences Center, a fulcrum for leading-edge technology platforms and specialized resources in support of advanced studies in precision environmental exposure science.

Through research, community engagement, and education, the CURES team of researchers and community partners seek to discover, investigate, and solve complex environmental health problems that affect humans exposed to chemical and non-chemical stressors in a dynamic urban environment. Successful faculty candidates will have a Ph.D., M.D., or equivalent degree in biomedical sciences relevant to environmental health sciences with evidence of peer recognition in the field, a commitment to excellence in research education and training, and the ability to engage with broader environmental science themes for the purpose of achieving transformative and translational research gains. Applicants are expected to have already established extramural research funding or to be on a clear path to secure extramural funding in support of their research programs. Faculty recruits will integrate with departments and colleges or schools consistent with their areas of expertise and shared interests and engage in all aspects of our academic mission, including research, training, instruction and service.

Competitive recruitment packages are available with salary and faculty rank based on qualifications. Applicants are encouraged to apply to posting #043725 through the WSU Online Hiring System https://jobs.wayne.edu. Applications will be accepted until positions are filled, but for full consideration this fall, application materials should be submitted by November 30, 2018. Applications should include a curriculum vitae and a brief narrative cover letter addressed to the Director of IEHS and the Vice President for Research, indicating the applicant’s potential for research synergy within the CURES environmental health science programs and the broader institutional initiative in integrative biosciences.

Wayne State University is a premier, public, urban research university located in the heart of Detroit where students from all backgrounds are offered a rich, high quality education. Our deep-rooted commitment to excellence, collaboration, integrity, diversity and inclusion creates exceptional educational opportunities preparing students for success in a diverse, global society. WSU encourages applications from women, people of color and other underrepresented people. WSU is an affirmative action/equal opportunity employer.

Founded in 1868, Wayne State University offers a range of academic programs through 13 schools and colleges to nearly 28,000 students. The campus in Midtown Detroit comprises 100 buildings over 200 acres including the School of Medicine, the Eugene Applebaum College of Pharmacy and Health Sciences, and the College of Nursing. The University is home to the Perinatology Research Branch of the National Institutes of Health and the Karmanos Cancer Center, a National Cancer Institute-designated comprehensive cancer center. WSU holds designations for research and community engagement in the Carnegie Foundation for the Advancement of Teaching. WSU features a strong faculty mentoring program and offers rich opportunities for professional growth and career development.
DEPARTMENT OF MOLECULAR AND HUMAN GENETICS

TENURED/TENURE TRACK FACULTY POSITION in GENETICS/GENOMIC INSTABILITY

Among genetics departments at U.S. medical schools, the Department of Molecular and Human Genetics at Baylor College of Medicine (https://www.bcm.edu/departments/molecular-and-human-genetics/) ranks first in both number of grants and total funding from the National Institutes of Health. The Department of Molecular and Human Genetics provides a bridging environment for physicians and basic scientists, promoting a cross-species approach to functional genetics and a commitment to technology transfer. Activities within the Department include clinical genetics, basic and clinical research, a new joint venture diagnostic laboratory, long-standing association with a NIH large scale human genome sequencing centers, medical student teaching, a MS Genetic Counseling program, a Ph.D. graduate program, and residency/fellowship training in medical genetics.

The Department has over $100 million in total research funding, 70 primary tenured and tenure-track research faculty members and a total of 140 primary faculty members, who are engaged in a variety of missions including basic and translational research, clinical diagnostic services, and prenatal, pediatric, and adult clinical care. To expand our translational impact, we established a uniquely structured and governed joint venture diagnostic laboratory, Baylor Genetics, and a Baylor College of Medicine/Chinese University of Hong Kong Center for Medical Genetics in Hong Kong that together will help to expand our clinical, diagnostic, and educational mission to a world-wide audience.

The Department’s research interests include genomics, mammalian development, the metabolic and genetic bases for inherited human disease, gene therapy, gene structure and expression, mechanisms of DNA replication and repair, mutation, DNA recombination, genomic instability and cancer, cyogenetics, behavioral genetics, bioinformatics, and the biology of aging. Department research includes strengths in human, bacterial, mouse, yeast, Drosophila, worm and Dictyostelium genetics.

The Department is seeking an individual for faculty appointment at rank appropriate for achievement and experience. Appointment will be at the Assistant, Associate, or Full Professor level depending on experience. Successful candidates will have strong basic research programs related to genetic/genomic stability or instability, genome organization, genomics including but not limited to DNA replication, repair, mutation, genome rearrangements, DNA damage response, mechanisms of evolution, studied in any organism from bacteria to human. However, outstanding individuals in any area will be considered. Generous start-up support is available.

Curriculum vitae, a brief summary of research plans, letters of reference, along with the names, addresses, and phone numbers of at least three references to the following email address: mhgfacultyrecruits@bcm.edu

Department of Molecular and Human Genetics
Baylor College of Medicine
One Baylor College of Medicine, ABBR Room R830
Houston, TX 77030
Phone: 713-798-5443
Fax: 713-798-8515


TENURE-TRACK ASSISTANT PROFESSOR
PHYSICAL CHEMISTRY

Harvard University Faculty of Arts and Sciences
Department of Chemistry and Chemical Biology

Position Description: Candidates are invited to apply for a tenure-track assistant professorship in physical chemistry, broadly defined, including experimental and theoretical research in areas such as but not limited to atomic and molecular physics, biophysical chemistry, condensed matter, quantum science and ultrafast spectroscopy. The appointment is expected to begin on July 1, 2019. The tenure-track professor will be responsible for teaching at the undergraduate and graduate levels. We are seeking candidates who have an outstanding research record and a strong commitment to undergraduate and graduate teaching.

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

Additional Qualifications: Demonstrated experience in teaching is desired.

Special Instructions: Please submit the following materials through the ARISS portal (http://academicpositions.harvard.edu/postings/8371). Applications must be submitted no later than October 15, 2018:

1. Cover letter
2. Curriculum Vitae with publications list
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 received.
6. Selected publications

Contact Information: Susan M. Kinsella, Search Administrator, Department of Chemistry and Chemical Biology, Faculty of Arts and Sciences, Harvard University, 12 Oxford St., Cambridge, MA 02138. Phone: 617-496-4088. kinsella@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, gender identity, sexual orientation, pregnancy and pregnancy-related conditions, or any other characteristic protected by law.

FACULTY POSITION IN REGENERATIVE BIOLOGY AND MEDICINE

Regeneration Next Initiative
Department of Pharmacology and Cancer Biology

Regeneration Next (RNi) is a campus-wide initiative to stimulate high impact research that crosses disciplinary boundaries in regenerative biology and medicine. The Department of Pharmacology and Cancer Biology is a collaborative basic science department broadly focused on cellular signaling and its impact on disease.

RNi is partnering with the Department of Pharmacology and Cancer Biology to hire a tenure-track faculty member at the rank of Assistant Professor. An appointment at the Associate or Full Professor level may be possible for exceptional senior applicants.

We invite applications from accomplished candidates with expertise in developmental and cell biology, stem cell biology, mechanisms of tissue regeneration, quantitative biology, imaging, signaling, chemical biology, or related areas. Candidates must have a PhD, MD, or equivalent degree. Women and underrepresented minority candidates are especially encouraged to apply.

Applicants should submit a curriculum vitae, a 3-page total summary of accomplishments and research plans, and at least 3 letters of recommendation by November 1, 2018 to AcademicJobsOnline: https://academicjobsonline.org/ajo/jobs/11605. Questions may be directed to: Don Fox, Chair of the Search Committee (don.fox@duke.edu) or Ken Poss, Director, RNi (regeneration@duke.edu).

Duke University is an Affirmative Action/Equal Opportunity Employer committed to providing employment opportunity without regard to an individual’s age, color, disability, genetic information, gender, gender identity, national origin, race, religion, sexual orientation, or veteran status.
Applications should send a letter of application, curriculum vitae, and a statement of planned research projects as pdf files to southwest.edu/education/medical-school/departments/green-center/.

Candidates must have a Ph.D. or M.D. or equivalent in a relevant field of study, postdoctoral or comparable experience, and a demonstrated record of research excellence. Applicants should send a letter of application, curriculum vitae, and a statement of planned research projects as pdf files to GreenCenter@UTSouthwestern.edu. Please indicate one of the three research areas listed above (Molecular biology of female reproduction; Gene regulation; Genomics) in the subject line of the email. Applicants should also arrange for three letters of reference to be sent directly to the above e-mail address. Collection and review of applications will commence October 1, 2018 and will continue during the 2018–2019 academic year until the position is filled, but applicants are encouraged to submit their materials as soon as possible.

UT Southwestern is an Affirmative Action/Equal Opportunity Employer. Women, minorities, veterans, and individuals with disabilities are encouraged to apply.
The Department of Biology in the College of Arts & Sciences at Baylor University seeks outstanding applicants for the following faculty positions:

- **Assistant Professor in Global Change Biology** (https://www.baylor.edu/biology/globalchangebiology) Search Committee Chair, Dr. Thad Scott at globalchange_biology@baylor.edu.
- **Assistant Professor in Mammalian Comparative Physiology** (https://www.baylor.edu/biology/comparativemammalian) Search Committee Chair, Dr. Stephen Trumble at mammalian_physiology@baylor.edu.
- **Associate Professor in Cancer Biology/Immunology** (https://www.baylor.edu/biology/cancerbiologyimmunology) Search Committee Chair, Dr. Myeongwoo Lee at cancerbiology_immunology@baylor.edu.
- **Regular Lecturer in Biology** (https://www.baylor.edu/biology/lecturerinbiology) Search Committee Chair, Dr. Mark Taylor at biolecturersearch@baylor.edu.

The Department of Biology has over 20 graduate faculty and 10 undergraduate teaching faculty. We are seeking faculty candidates who will complement and expand existing research and teaching strengths in the areas of Ecology, Evolution, and Organismal Biology, and Cell, Molecular, Health and Disease (CMHD) Biology. Our graduate programs are growing rapidly with significant investment from the university.

Review of application materials will begin on October 1, 2018 and will be accepted until the positions are filled. Visit https://jobs.baylor.edu/ for further details about these positions. Inquiries may be directed to the appropriate Search Committee Chairs listed above. To apply, submit all required materials (cover letter, CV, research and teaching statements, transcripts, and the names of references) as a single PDF file through the iAppy application system at our Human Resources site: https://jobs.baylor.edu/. Finalists for these positions will be required to submit official transcripts for the doctoral degree in advance of a campus visit.

Baylor University is a private Christian university and a nationally ranked research institution, consistently listed with highest honors among The Chronicle of Higher Education’s “Great Colleges to Work For.” The University is recruiting new faculty with a deep commitment to excellence in teaching, research and scholarship. Baylor seeks faculty who share in our aspiration to become a tier one research institution while strengthening our distinctive Christian mission as described in our strategic vision, Pro Futuris (www.baylor.edu/profuturis/), and academic strategic plan, Illuminate (www.baylor.edu/illuminate). As the world’s largest Baptist University, Baylor offers over 40 doctoral programs and has more than 17,000 students from all 50 states and more than 85 countries.

Baylor University is a private not-for-profit university affiliated with the Baptist General Convention of Texas. As an Affirmative Action/Equal Opportunity Employer, Baylor is committed to compliance with all applicable anti-discrimination laws, including those regarding age, race, color, sex, national origin, marital status, pregnancy status, military service, genetic information, and disability. As a religious educational institution, Baylor is lawfully permitted to consider an applicant's religion as a selection criterion. Baylor encourages women, minorities, veterans, and individuals with disabilities to apply.

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**Research Plant Physiologist/Ecologist**

**USDA-ARS, Beltsville, Maryland**

**Position Type:** Full time, Permanent  
**Salary:** $81,548-$126,062/ per year + benefits

We are seeking a highly motivated scientist to conduct research directed to increasing our understanding of mechanisms and diversity of plant responses to climate change factors; specifically, elevated carbon dioxide and/or high temperature and water stress at the biochemical, physiological and system levels; and to utilize this information to develop, test and modify models of crop and weed responses to climatic variability. The scientist will be a member of the Adaptive Crop Systems Laboratory (ACSL) at the USDA-ARS location in Beltsville, Maryland. ACSL scientists have an outstanding record of discovery and publication regarding climate change and rising levels of carbon dioxide in agriculture. This offers the incumbent unique opportunities to build upon these research areas and to collaborate with other ARS, university and private sector scientists as well. The successful candidate must be a U.S. citizen, hold a PhD in Botany or Plant Physiology, with 9 semester hours in ecology and 12 semester hours in physical and mathematical sciences. Experience is desired in defining research problems, developing and executing research plans and evaluation of results related to plant responses to climate change variables; the ability to use methodologies in developing testing and applying mathematical models of plant process and to simulate climate projections using field and enclosed facilities; and experience in publishing research in peer-reviewed scientific journals in plant physiology, ecology or physiological ecology.

**This announcement will open September 17, 2018 and will close on September 28, 2018 U.S. Citizenship is required.** USDA/ARS is an Equal Opportunity Provider and Employer. If you have any questions regarding the additional duties of this position please contact Dr. V. R. Reddy at v.r.reddy@ars.usda.gov, (301)-504-5872 or Dr. David Fleisher at david.fleisher@ars.usda.gov, 301-504-7339. If you have any questions regarding the application process for this position please contact Elsa Ayala, Human Resources Specialist, at 301-504-1369 or elsa.ayala@ars.usda.gov. To view additional details about this position and complete application instructions, go to the US. Jobs Web site: https://www.usajobs.gov/ and refer to announcement number ARS-D18E-0122. Please note that the announcement number will not be accessible until September 17, 2018.

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**FACULTY POSITIONS AT THE ROCKEFELLER UNIVERSITY**

The Rockefeller University seeks exceptional, creative scientists to join its faculty. We invite applications from outstanding junior candidates for tenure-track positions and also welcome applications from tenured scientists at an early stage of their career.

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

- Biochemistry, Biophysics, Chemical Biology, and Structural Biology
- Cancer Biology
- Cell Biology
- Genetics and Genomics
- Immunology, Virology, and Microbiology
- Mechanisms of Human Disease
- Neurosciences and Behavior
- Organismal Biology and Evolution
- Physical, Mathematical, and Computational Biology
- Stem Cells, Development, Regeneration, and Aging

The Rockefeller University provides strong support for the work of its faculty including competitive salary, a range of work-life employee benefits, start-up funds, renovated laboratory space and state-of-the-art core facilities. There are extensive opportunities for collaboration 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 October 1, 2018.**

Address questions to facultysearch@rockefeller.edu.

Rockefeller University is an equal opportunity employer and will consider all qualified applicants for employment without regard to race, color, religion, sex, sexual orientation, gender identity, national origin, disability or protected veteran status.
Rutgers Faculty Position in Molecular Genetics

Waksman Institute of Microbiology

The Waksman Institute at Rutgers University seeks an outstanding scientist to fill a new faculty position at the Assistant Professor level, with an tentative starting date of September 1, 2019. The academic appointment will be in the Division of Life Sciences within the School of Arts and Sciences at Rutgers.

We are seeking individuals with research interests that complement and expand our existing strengths, including genetics, developmental biology, neurobiology, reproductive biology, cell biology, gene regulation, genomics, and metabolomics. We are particularly interested in individuals who use invertebrate animal model systems (e.g., Drosophila, C. elegans). The candidate will teach and develop undergraduate and graduate courses in these areas, supervise students in the laboratory, and serve on departmental and university committees.

The Waksman Institute is home to over 15 faculty members who use a broad range of approaches and experimental systems in numerous well-funded research programs. The Institute is part of a vibrant and interactive life sciences community that includes the School of Arts and Sciences Division of Life Sciences, the Center for Advanced Biotechnology and Medicine, the Cancer Institute of New Jersey, the Human Genetics Institute of New Jersey, and the Robert Wood Johnson Medical School. A leading research university, Rutgers is a member of the AAU and the CIC. For more information, please visit our websites: https://www.waksman.rutgers.edu, http://lifesci.rutgers.edu, and http://waksman.rutgers.edu.

Applicants must have a Ph.D. or equivalent degree. They should submit a CV, a detailed statement of research interests and plans, and full contact information for three individuals willing to provide confidential letters of reference. Application must be submitted electronically at: https://jobs.rutgers.edu/postings/72742. All other inquiries may be made to Ms. Erin Sorge, esorge@waksman.rutgers.edu. Review of applications will begin on or about October 15, 2018 and continue until the position is filled.

Rutgers, the State University of New Jersey, is an Equal Opportunity/ Affirmative Action Employer. For additional information please see the Non-Discrimination Statement at: http://uhr.rutgers.edu/non-discrimination-statement.

UCLA Open Rank Faculty Position in Life Sciences

University of California Los Angeles

Building on a successful multiyear initiative to hire leading research scientists with a strong commitment to promoting the success of underrepresented students, the Division of Life Sciences in the UCLA College of Letters and Sciences announces an open rank faculty position with Academic Senate appointment in one of the departments of Life Sciences (www.lifesciences.ucla.edu). Ecology and Evolutionary Biology; Integrative Biology and Physiology; Microbiology, Immunology, and Molecular Genetics; Molecular, Cell, and Developmental Biology; and Psychology. Candidates must have a PhD in an area relevant to one of the above departments, and have outstanding record of scholarly publications, research support, and a history of commitment to the mentorship of students from underrepresented and underserved populations. The successful candidate will be expected to continue their active research program and mentoring activities and to participate in campus-wide departmental programs that provide research and professional development opportunities for our diverse student body (such as, PEERS-Program for Excellence in Education & Research in Sciences, MARC-Maximizing Access to Research Careers, the Biomedical Research Minor, and others). Service and teaching expectations will not exceed those of any other faculty position. Faculty appointment will be made at a professorial rank commensurate with current academic standing. UCLA offers competitive salaries, research set-up funds, and recruitment allowances.

Application packages should be submitted online through https://recruit.apo.ucla.edu/apply/JPF04028 and include the following documents: (1) curriculum vitae; (2) research statement; (3) statement of contributions to equity, diversity, and inclusion with particular attention to formal and informal mentoring activities and detailed plans for continuing such activities in the future; (4) teaching interests; and (5) cover letter that includes names of three referees who can be contacted for letters. Each of the five items should be submitted as a standalone document. Review of applications will begin on October 15, 2018 and continue until the position is filled. Both inquiries about the position and nominations of potential candidates should be sent to search committee co-chairs: Professor Yuen Huo (huo@psych.ucla.edu) and Professor Jeff Long (JeffLong@ucla.edu).

Located in an urban setting, UCLA is California’s largest university with a diverse student body of 38,000 undergraduate and graduate students, approximately 25% that come from underrepresented minority groups. UCLA College of Letters and Science is home to many innovative programs focused on student success in sciences and promotes excellence in STEM teaching through the Center for Education Innovation & Learning in the Sciences. Interdisciplinary programs in Life Sciences are enhanced by the Medical, Nursing, Dental and School of Public Health along with 7 other professional schools with renowned faculty offering more than 323 degree programs and majors. UCLA is home to a number of NIH, NSF, and HHMI funded training programs focused on increasing success for underrepresented students in science, medical and allied health fields, and currently serves as the coordinating center for NIH BUILD grants. As a campus with a continually growing diverse student body, we encourage applications from women, minorities, and individuals with a commitment to mentoring underrepresented groups in the sciences.

The University of California is an Equal Opportunity/Affirmative Action Employer. All qualified applicants will receive consideration for employment without regard to race, color, religion, sex, national origin, disability, age, sexual orientation, gender identity, or protected veteran status. For the complete University of California nondiscrimination and affirmative action policy see: UC Nondiscrimination & Affirmative Action Policy. (http://policy.uop.edu/doc/4000376/NondiscrimAffirmAct).
Assistant/Associate Professor
Pharmaceutical Sciences and Drug Development (Chemical Biology; Medicinal Chemistry)

The Department of Pharmaceutical Sciences in the Eugene Applebaum College of Pharmacy and Health Sciences invites applications for two 12-month tenure-track positions at the Assistant or Associate Professor level. Applicants are expected to have a Ph.D., MD/PhD, PharmD/PhD or equivalent degree in pharmaceutical sciences, medicinal chemistry or a related discipline. Preference will be given to candidates who have achieved high impact research in nanotechnology and pharmaceutical chemistry at the chemical biology interface, particularly in strengths of drug discovery, delivery and development, metabolic disease, neuroscience and oncology. The Pharmaceutical Sciences faculty positions are part of a broader initiative in which the departments of Chemistry and Pharmaceutical Sciences are also expanding existing excellence in Chemical Biology. The finalists are expected to have or develop a vigorous externally funded research program and provide valuable teaching in the PhD and PharmD programs. We offer an uncommonly collegial academic culture, competitive start-up and compensation package, generous benefits, excellent laboratory facilities and extensive research support. Submit applications via http://jobs.wayne.edu under Department H1822-Pharmaceutical Sciences posting #043817. Further details are available by contacting Dr. Alok Dutta at adutta@wayne.edu or (313) 577-1064.

Wayne State University is a Carnegie Highest Research Activity (R1) institution and a premier public, urban research university in the heart of Detroit where students from all backgrounds enjoy a rich, high quality education. The College is located in the midst of one of the dynamic urban communities leading the Detroit renaissance. The multicultural environment is rich in diversity, strong schools and outstanding affordable housing, all within the beautiful Great Lakes region. Our deep-rooted commitment to excellence, collaboration, integrity, diversity and inclusion creates exceptional educational opportunities that prepare students for success in a diverse and global society. We encourage applications from women, people of color, and other underrepresented groups.

Wayne State is an Affirmative Action/Equal Opportunity Employer. All qualified applicants will receive consideration for employment without regard to race, color, religion, sex, national origin, age, disability, veteran status, or any other characteristic protected by law.

Application review will begin October 21, 2018 with a target faculty start date in August 2019. The positions will remain open until filled.

Faculty Positions in Applied Physical Sciences
Department of Applied Physical Sciences
University of North Carolina at Chapel Hill

The Department of Applied Physical Sciences (APS) invites applications for two tenure-track assistant professor faculty positions and a senior endowed Kenan Distinguished Professorship. The goal of APS is to bridge fundamental research and training in the science and engineering of materials with translational impact on society’s most challenging problems. APS partners with all STEM and Health Affairs departments toward multidisciplinary, team-based research, education, and entrepreneurship in a top 10 public research university. This hiring initiative continues an aggressive strategy to build a pre-eminent Department of Applied Physical Sciences, aiming for 20 new hires together with joint appointments from partnering departments. These new positions are intended to build upon existing strengths and aim for international prominence and leadership in the science and engineering of materials at the intersection of the physical, life, and energy sciences.

All candidates should have clear potential and commitment for research excellence, multidisciplinary collaboration, extramural funding from government, industry, or other sources, and translational impact in education and entrepreneurship. Excellence and commitment to education and mentorship at the graduate and undergraduate levels are essential qualities for these recruitments. The Department and University are broadly committed to equity and inclusion. It is part of our institutional mission to teach and engage a diverse community of undergraduate and graduate students, and postdoctoral scholars. We especially welcome applications from candidates who are committed to advancing these ideals. A PhD in a STEM field (science, technology, engineering or math) or related fields that contribute to applied physical sciences is required.

Applications will only be accepted online (https://unc.peopleadmin.com/postings/147785). Applicants should submit a curriculum vitae, a research statement, a statement on teaching and mentorship, and up to 2 representative publications (optional). Applicants are required to identify the names, titles, email addresses and phone numbers of four professional references when applying. Reference providers identified by the applicant will be contacted via email with instructions for uploading their letters of support. To assure full consideration, applications should be submitted and all letters received by October 15, 2018. Positions are open until filled. Questions should be directed to Chair, Applied Physical Sciences Search Committee, University of North Carolina at Chapel Hill, Chapel Hill, NC 27599-3050, apssearch@unc.edu.

The University of North Carolina at Chapel Hill is an Equal Opportunity/Affirmative Action Employer. All qualified applicants will receive consideration for employment, without regard to age, color, disability, gender, gender expression, gender identity, genetic information, national origin, race, religion, sex, sexual orientation, or status as a protected veteran.

Associate Scientist/Scientist
Population Health Group, Sanford Research

The Population Health Group at Sanford Research invites applications for full-time faculty at the rank of Associate Scientist or Scientist within Sanford Research in Sioux Falls, SD, with commensurate rank of Associate Professor or Professor at the Sanford School of Medicine at the University of South Dakota. Sanford Research is the non-profit research branch under Sanford Health.

The Population Health Group is comprised of investigators focused on public health, epidemiology, and population health with a strong emphasis on American Indian and rural population health. Ideal candidates will have an existing research portfolio in population health, health disparities, or a similar field of study. Additionally, the candidate will become the Principal Investigator of a currently funded Investigator Center for Biomedical Research Excellence (CoBRE) grant. The candidate will mentor junior faculty, oversee relevant scientific cores, and utilize the CoBRE and institutional resources to grow and sustain the Center, including recruitment of several new investigators during the tenure of the grant. This candidate would also have the opportunity to engage in translational health services research leveraging Sanford’s integrated data warehouse (clinical and claims data) to inform healthcare delivery. Significant institutional support, including modern laboratory space and state-of-the-art facilities will be provided. A comprehensive benefits package will be tailored to the candidate’s qualifications.

Qualifications
Applicants should hold a PhD, MD or MD/PhD degree and complement the existing strengths and unique interdisciplinary and collaborative nature of Sanford Research. Physician Scientists are encouraged to apply. Ideal candidates will have a strong record of independent investigator-initiated grant funding and ideally program grant funding in population health (or a similar field), managing large budgets, mentoring early-career investigators to funding success, and experience in developing collaborations with various communities and institutional partners.

Application
Sanford Health is an Equal Opportunity/Affirmative Action Employer. Applicants should submit a single PDF that includes: 1) detailed curriculum vitae, 2) description of research experience and future research plans with details on relevance of their research to population health (or related topic), and 3) three letters of recommendation. If any of the information above is missing, the submission will not be considered. Submit materials via email to: researchrecruitment@sanfordhealth.org.
Faculty Position in Cancer Biology/Genetics

The Life Sciences Institute (LSI) at the University of Michigan invites applications for an open rank faculty position in Cancer Biology/Genetics. Faculty will hold both a Research Professor appointment in the LSI as well as an Assistant, Associate, or Full Professor appointment in one of the University’s schools and colleges.

The LSI is a scientific enterprise at the University of Michigan dedicated to fundamental discovery in the biological sciences in a state-of-the-art collaborative physical space (www.lsi.umich.edu).

Successful candidates will have experience in cancer biology/genetics, with specific research targets related to cancer metabolism, cancer genetics/genomics/epigenetics, chemical biology, tumor microenvironment, or tumor immunology.

Application materials are due on Friday, September 28, 2018. Interested applicants will submit a cover letter, curriculum vitae, a summary of future research plans (up to 4 pages), contact information for three references, and copies of up to three publications on our online application site (LSI.science/2018facultyposting). Individuals from groups historically under-represented in the sciences are strongly encouraged to apply.

The University of Michigan is an Equal Opportunity/Affirmative Action Employer.

Assistant Professor Research Scholar

The Vagelos College of Physicians and Surgeons is seeking one or more outstanding scientists in the Biomedical Sciences for appointment as a Research Scholar. These assistant professor positions are limited to MD, PhD, or MD-PhD researchers who have, in general, 4 years or less of postdoctoral fellowship and who have demonstrated exceptional ability, creativity and productivity as reflected in first or senior authored publications in leading scientific journals.

Applicants who do not meet these criteria should not apply.

There is no limitation regarding the field of research. Appropriate departmental affiliation will be decided after selection. Adequate start-up funds, space, and mentorship will be provided. Priority will be given to applicants outside Columbia University.

Applicants should provide 3 names of references and a proposed plan for their work over the next five years with the application. To apply please visit: https://academicjobs.columbia.edu/applicants/Central?quickFind=66057 or search by requisition number 0008603

Columbia University is an Equal Opportunity/Affirmative Action Employer
Race/Gender/Disability/Veteran

Williams

Ecologist
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 2019. 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 diverse student population.

We seek a broadly trained ecologist whose research incorporates state-of-the-art methods and a strong field component to address questions of broad biological significance. The candidate should complement our existing faculty expertise by focusing on community or ecosystem or landscape level ecology. The successful candidate will teach in our introductory courses as well as upper-level courses in ecology, including courses on sustainability of natural or human dominated systems. Normally, faculty members teach one course and two associated laboratory sections (or the equivalent) each semester. This individual will advise undergraduates in research and have the opportunity to participate in interdisciplinary programs such as Environmental Studies.

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 https://apply.interfolio.com/51768. Email and paper applications will not be accepted. Through Interfolio submit: a letter of application addressed to Professor Steven Swoap (Chair, Biology Department), a curriculum vitae, concise statements of teaching and research plans, and three current letters of recommendation. Your cover letter should speak to your ability to work effectively with a student population that is broadly diverse with regard to gender, race, ethnicity, nationality, sexual orientation and religion. 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 12, 2018. For more information on the Department of Biology, visit https://biology.williams.edu/

Williams College is a coeducational liberal arts institution located in the Berkshire Hills of western Massachusetts. The college maintains the 2,500-acre Hopkins Memorial Forest for teaching and research. 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.

Williams

Metabolic 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 2019. 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 diverse student population.

We seek a Metabolic Biochemist whose research addresses questions of broad biological significance and incorporates state-of-the-art methods. The successful candidate will teach a course in metabolic biochemistry, along with introductory cell biology and upper level courses in the candidate’s field of expertise. Normally, faculty members teach one course and two associated laboratory sections (or the equivalent) each semester. This individual will advise undergraduates in research and participate in interdisciplinary programs in Biochemistry & Molecular Biology, and/or Bioinformatics, Genomics & Proteomics.

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 https://apply.interfolio.com/51770. Email, fax, and paper applications will not be accepted. The application should include a letter of application addressed to Professor Steven Swoap (Chair, Biology Department), a curriculum vitae, concise statements of teaching and research plans, and three current letters of recommendation. Your cover letter should speak to your ability to work effectively with a student population that is broadly diverse with regard to gender, race, ethnicity, nationality, sexual orientation and religion. All offers of employment are contingent upon completion of a background check. Further information is available here: http://faculty.williams.edu/prospective-faculty/background-check-policy/. Application deadline is October 12, 2018. For more information on the Department of Biology, visit https://biology.williams.edu/

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.
Tenured Faculty Positions in Chemistry and Biochemistry

The Department of Chemistry & Biochemistry at Texas Tech University invites applications for two senior tenured faculty positions at the Associate or Full Professor level. One position will be in the area of Biochemistry, broadly defined. The field for the second position is open; however, it is expected that the research interests will fit into one or more areas of excellence identified by the department, including (again, broadly defined) life sciences, computational chemistry, high-resolution chemical imaging, energy storage and conversion materials, and sustainable (green) catalysis. Applicants must be tenured at their current institution or have comparable experience, and must have a nationally recognized and externally-funded research program. Service duties include program-building, as well as commitment to extra-curricular activities. A demonstrated and ongoing commitment to serving diverse student populations and experience working with diverse student populations and first-generation students is highly desirable. Service to the department, college, and university is expected. Successful candidates for these positions will be part of a major expansion of the Department of Chemistry & Biochemistry, which is among the top academic units at Texas Tech in terms of research funding, publications and graduate education. Texas Tech University has a Carnegie R1: Highest Research Activity classification. It has an enrollment of more than 37,000 students, and is one of the major, state-supported, multidisciplinary universities in the Southwest. Texas Tech University recently surpassed the Hispanic student population threshold necessary for designation as a Hispanic Serving Institution (HSI).

All applications must be submitted online. Online application can be submitted at http://www.texasTech.edu/careers/. Candidates for the Biochemistry position should apply to requisition number 15017BR or use the direct link https://jobs.brassring.com/TGWebHost/jobdetails.aspx?partnerid=25898&siteid=5637&areq=15017BR. Candidates for the Open position should apply to requisition number 15086BR or use the direct link https://jobs.brassring.com/TGWebHost/jobdetails.aspx?partnerid=25898&siteid=5637&areq=15086BR. Candidates may apply for both positions, if they are otherwise qualified. Applications must include a curriculum vitae, a statement of current and proposed research, and a teaching philosophy. Applicants must also arrange to have three confidential letters of recommendation sent on their behalf to Faculty Search Committee, Department of Chemistry & Biochemistry, Texas Tech University, Box 41061, Lubbock, TX 79409-1061 (chemchair@ttu.edu). Evaluation of applications will begin on October 31, 2018, and continue until the position is filled.

As an Equal Employment Opportunity/Affirmative Action employer, Texas Tech University is dedicated to the goal of building a culturally diverse faculty committed to teaching and working in a multicultural environment. We actively encourage applications from all those who can contribute, through their research, teaching, and/or service, to the diversity and excellence of the academic community at Texas Tech University. The university welcomes applications from minorities, women, veterans, persons with disabilities, and dual-career couples.

UNIVERSITY OF MARYLAND

TENURE-TRACK ASSISTANT PROFESSOR POSITION: ECOLOGY

The Department of Biology at the University of Maryland, College Park invites applications for an Assistant Professor position in Ecology. We seek outstanding candidates with research interests that complement and integrate those of our existing faculty. We are especially interested in those with experimental, observational, analytical, and/or theoretical approaches that address major questions in Ecology. Possible areas of synergy include, but are not limited to: global change, biocomplexity, and/or effects of the environment and interspecific interactions on ecological processes. Applicants must have a doctorate degree and should describe their ability to develop an outstanding research program that would lead to a robust and diverse portfolio of extramural funding. Postdoctoral experience is preferred. Applicants must provide evidence of their commitment to excellence in teaching and mentoring, including working with students and groups from underrepresented backgrounds. The University of Maryland and the Department of Biology are committed to increasing the diversity of the campus community. Candidates who have experience working with a diverse range of faculty, staff, and students, and who can contribute to our climate of inclusivity, are encouraged to identify their experience in these areas.

Application deadlines: Review of applications will begin 1 October 2018.

Application materials: All applicants are required to use our official UMD jobs portal to apply: https://jobs.umd.edu/postings/62247. You will upload PDF files containing a cover letter, curriculum vitae, separate statements of research and teaching interests, and will provide names and contact information for 3 references.

The University of Maryland, College Park is the flagship campus of the University of System of Maryland and is one of the most rapidly advancing public research universities in the country. The University sponsors the NSF-funded National Socio-Environmental Synthesis Center (SESYNC) in Annapolis. Our close proximity to Washington D.C., the Chesapeake Bay, and the Appalachian Mountains facilitates interactions with researchers at an extraordinary range of institutions and field stations (e.g., Smithsonian Institution, NIH, USDA, USGS Patuxent Research Center, USFWS, Smithsonian Environmental Research Center, Chesapeake Bay Foundation, University of Maryland Center for Environmental Studies). In addition, several major non-governmental organizations have their world headquarters in Washington, DC (e.g., Conservation International, The Nature Conservancy, World Wildlife Fund).

The University of Maryland, College Park, an Equal Opportunity/Affirmative Action Employer, complies with all applicable federal and state laws and regulations regarding nondiscrimination and affirmative action; all qualified applicants will receive consideration for employment. The University is committed to a policy of equal opportunity for all persons and does not discriminate on the basis of race, color, religion, sex, national origin, physical or mental disability; protected veteran status, age, gender identity or expression, sexual orientation, creed, marital status, political affiliation, personal appearance, or on the basis of rights secured by the First Amendment, in all aspects of employment, educational programs and activities, and admissions.

Assistant Scientist Cancer Biology Group, Sanford Research

The Cancer Biology Group at Sanford Research invites applications for full-time faculty at the rank of Assistant Scientist within Sanford Research in Sioux Falls, SD, with commensurate rank of Assistant Professor at the Sanford School of Medicine at the University of South Dakota. Sanford Research is the non-profit research branch under Sanford Health.

We seek outstanding scientists with research programs that span all areas of cancer research, especially those relevant to cancer immunology or immunotherapy. The successful candidate will have an opportunity to become a project leader on the NIH-funded Cancer Biology CoBRE. Significant institutional support, including modern laboratory space and state-of-the-art facilities will be provided. A comprehensive benefits package will be tailored to the candidate’s qualifications.

Qualifications

Applicants should hold a PhD, MD or MD/PhD degree and complement the existing strengths and interdisciplinary and collaborative nature of Sanford Research. Physician Scientists are encouraged to apply. Candidates will be expected to develop independent research programs and secure extramural funding.

Application

Sanford Health is an Equal Opportunity/Affirmative Action Employer. Applicants should submit a single PDF that includes: 1) detailed curriculum vitae, 2) description of research experience and future research plans with details on relevance of their research to cancer biology and/or cancer immunology, and 3) three letters of recommendation. If any of the information above is missing, the submission will not be considered. Submit materials via email to: researchrecruitment@sanfordhealth.org

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Assistant Professor, Tenure Track- Otorhinolaryngology- Head and Neck Surgery

The Department of Otorhinolaryngology: Head and Neck Surgery at the Perelman School of Medicine at the University of Pennsylvania seeks candidates for an Assistant Professor position in the tenure track. The successful applicant will have experience in the field of genetics and biology of head and neck cancers with a focus on cancer etiology and/or cancer genomics, inflammation, and the development of novel therapeutic approaches towards treatment of head and neck cancers. Particular areas of interest include genetics, tumor immunology or virology, bioinformatics, and/or translational therapeutics.

Responsibilities include building an independent research program in basic and/or translational studies in head and neck cancer, training of graduate students and post-doctoral investigators, as well as to develop interactions with investigators within the greater cancer research environment at the Abramson Cancer Center and the Perelman School of Medicine at the University of Pennsylvania. In particular, the candidate should demonstrate the vision and potential or ability to interact with clinicians to foster translational research programs. Candidates with a keen interest in building interdisciplinary programs through interactions across the basic and clinical departments within the Perelman School of Medicine, as well as other related schools at the University of Pennsylvania, are encouraged to apply. Key selection criteria will be research excellence and originality of science. Applicants must have an M.D. or Ph.D. or M.D./Ph.D. degree and have demonstrated excellent qualifications in research.

The Departments of Otorhinolaryngology-Head and Neck Surgery and Cancer Biology are among the leading departments in the nation, and is home to basic and translational scientists who conduct world-class research in broad areas of cancer, virology, and microbiome. The Perelman School of Medicine at the University of Pennsylvania provides an intellectually vibrant and collaborative interdisciplinary environment, with a wealth of cutting edge research resources. The successful applicant will have a secondary appointment in the Department of Cancer Biology.

The ideal candidate should have completed advanced postdoctoral training or be an early career investigator with an exceptional record of research achievement demonstrating a trajectory for success in academic medicine.

We seek candidates who embrace and reflect diversity in the broadest sense. The University of Pennsylvania is an EOE. Minorities / Women/ individuals with disabilities/ Protected Veterans are encouraged to apply.

Apply for this position online at:
https://www.med.upenn.edu/apps/faculty_ad/index.php/g/d5040

Faculty Position

The Program in Systems Biology invites applications from outstanding candidates for a tenure-track or senior tenured professor position. Rank will be commensurate with ability and experience. The position will be highly competitive with regard to start-up funds, laboratory space and salary.

The candidate will be expected to develop and maintain an innovative, externally funded research program. We are seeking an energetic and collaborative individual who will develop a strong research program to tackle important problems in one of the following areas in systems biology: Network Biology, Single Cell Systems Biology, Genome Biology, Evolution, Variation, Immunology and Neurobiology. Exceptionally strong candidates in other areas will also be considered.

The Program in Systems Biology is housed in the new Albert Sherman Center that opened early in 2013. The Program has high-performance computing facilities, state-of-the-art laboratory space and equipment and a full-time administrator to support the research activities of its Faculty.

Applicants should submit a cover letter explaining their interest in the Program, a curriculum vitae that includes honors, publications, and a succinct research plan to http://www.academicjobsonline.org (Position ID # 11577).

UT Southwestern Medical Center

TENURE-TRACK POSITIONS

The Department of Physiology invites outstanding scientists with Ph.D., M.D., or equivalent degrees to apply for tenure-track faculty positions at the level of Assistant Professor. Candidates who bring innovative approaches to the study of any under-explored/unexplored questions broadly related to physiology are encouraged to apply. The scientific excellence of the candidates is more important than the specific area of research. These positions are part of the continuing growth of the Department at one of the country’s leading academic medical centers. They will be supported by significant laboratory space, competitive salaries, state-of-the-art core facilities and exceptional start-up packages.

The University of Texas Southwestern Medical Center is the scientific home to six Nobel Prize laureates and many members of the National Academy of Sciences and Institute of Medicine. UT Southwestern conducts more than 3,500 research projects annually totaling more than $417 million. Additional information about the Department of Physiology can be found at http://www.utsouthwestern.edu/education/medical-school/departments/physiology/index.html.

Applicants should submit a CV, a brief statement of current and proposed research, and a summary of your two most significant publications describing the importance of the work (100-150 words each). Please arrange to have three letters of recommendation sent on his/her behalf. All items should be submitted to: http://academicjobsonline.org/ajo/jobs/11597. Completed applications will be reviewed starting November 1, 2018. You may email questions to ron.doris@utsouthwestern.edu.

UT Southwestern Medical Center is an Equal Opportunity/Affirmative Action Employer. Women, minorities, veterans and individuals with disabilities are encouraged to apply.
The University of South Carolina is an Affirmative Action, Equal Opportunity Employer. Minorities and women are encouraged to apply. The University of South Carolina does not discriminate in educational or employment opportunities on the basis of race, color, religion, national origin, sex, sexual orientation, gender, age, disability, veteran status or genetics.

MULTIPLE FACULTY POSITIONS
Department of Electrical and Systems Engineering

The School of Engineering and Applied Science at the University of Pennsylvania is growing its faculty by 33% over the next five years. As part of this initiative, the Department of Electrical and Systems Engineering is engaged in an aggressive, multi-year hiring effort for multiple tenure-track positions at all levels. Candidates must hold a Ph.D. in Electrical Engineering, Computer Engineering, Systems Engineering, or related area. The department seeks individuals with exceptional promise for, or proven record of, research achievement, who will take a position of international leadership in defining their field of study and excel in undergraduate and graduate education. Leadership in cross-disciplinary and multi-disciplinary collaborations is of particular interest. We are interested in candidates in all areas that enhance our research strengths in

1. Nanodevices and nanosystems (nanoelectronics, MEMS/NEMS, power electronics, nanomagnetics, quantum devices, integrated devices and systems at nanoscale)
2. Circuits and computer engineering (analog, RF, mm-wave, digital circuits, emerging circuit design, computer engineering, IoT, embedded and cyber-physical systems), and
3. Information and decision systems (control, optimization, robotics, data science, network science, communications, information theory, signal processing).

Prospective candidates in all areas are strongly encouraged to address large-scale societal problems in energy, transportation, health, food and water, economic and financial networks, social networks, critical infrastructure, and national security. We are especially interested in candidates whose interests are aligned with the school’s strategic plan, https://www.seas.upenn.edu/about/penn-engineering-2020/

Diversity candidates are strongly encouraged to apply. Interested persons should submit an online application at https://www.academicjobsonline.org/ajo/jobs/11555 and include curriculum vitae, statement of research and teaching interests, and at least three references. Review of applications will begin on December 1, 2018.

The University of Pennsylvania is an Equal Opportunity Employer. Minorities/ Women/Individuals with Disabilities/Veterans are encouraged to apply.

University of Massachusetts Medical School

Program in Bioinformatics and Integrative Biology

The Program in Bioinformatics and Integrative Biology invites applications for tenure-track or senior tenured professor positions. We are seeking innovative, energetic and collaborative individuals who plan to develop strong computational research programs to tackle problems in one or more of the following areas: regulatory genomics, comparative genomics, systems biology, RNA biology, evolutionary biology, statistical genetics, or proteomics. Candidates in all computational biology areas, especially statisticians and computer scientists focused on biological questions, are strongly encouraged to apply. Wet bench research space can be arranged for individuals who are interested in performing experiments to augment their computational efforts. Salary and start-up package will be highly competitive and commensurate with the high level of accomplishment expected of successful applicants.

The Program in Bioinformatics and Integrative Biology is housed in the new state-of-the-art Albert Sherman building, where it is part of a vibrant and collaborative research community that includes the Program in Systems Biology and the RNA Therapeutics Institute. Other closely collaborating departments, including the Department of Molecular, Cell and Cancer Biology, Program in Molecular Medicine, and Department of Biochemistry and Molecular Pharmacology, are located in neighboring buildings. The Program is supported by high-performance computing facilities.

Applicants should submit a cover letter explaining their interest in the Program, a curriculum vitae that includes publications, honors, and a succinct research plan to http://www.academicjobsonline.org/ajo/jobs/11550. To expedite the review process, applicants should invite three individuals who are familiar with your work, and potential for success, to upload their recommendation letters at the same web address. Review of applications will begin on October 1, 2018 and continue until positions are filled. Inquiries, but not application materials, may be directed to Professor Zhiping Weng at zhiping.weng@umassmed.edu.

UMASS Medical School is located within a 10-minute drive from Worcester Polytechnic Institute (WPI). The two universities have numerous joint research and educational efforts in Bioinformatics and Systems Biology.

UMass Medical School is committed to being an Equal Opportunity and Affirmative Action Employer and recognizes the power of a diverse community. We encourage applications from protected veterans, individuals with disabilities, and those with varied experiences, perspectives, and backgrounds to consider UMass Medical School as their employer of choice.
W.M. Keck Science Department
Claremont McKenna College • Pitzer College • Scripps College

TENURE TRACK
ASSISTANT PROFESSOR of PHYSICS – EXPERIMENTALIST

The W.M. Keck Science Department of Claremont McKenna College, Pitzer College, and Scripps College (three members of the 7-member Claremont Colleges Consortium) seeks to hire a table-top experimentalist at the Assistant Professor level starting July 1, 2019. Applicants from all areas of experimental physics, including interdisciplinary areas such as materials science, optics, biological physics, condensed matter, fluids, engineering, etc., are welcomed. Our integrative science department comprises scientists in biology, chemistry, environmental science, neuroscience, and physics (the physics discipline also oversees an active 3-2 pre-engineering program.) We are a vibrant community of teacher-scholars who value an interdisciplinary approach to teaching and research. We seek candidates who share our enthusiasm for both scientific research and undergraduate teaching, and who desire a liberal-arts college career that balances the two. In serving students of three distinct colleges, our faculty enjoy a richly diverse learning community. Candidates must have a Ph.D. in a relevant field (e.g., physics or engineering), postdoctoral or equivalent professional research experience, and the ability to teach a full spectrum of courses in physics. The desire and capacity to actively engage undergraduates in in-house laboratory research and to supervise senior-thesis research projects is essential. Located in the charming town of Claremont, The Claremont Colleges are situated in the Los Angeles basin, 35 miles east of downtown LA, and are within a one-hour drive of Caltech, UCLA, USC, UC Irvine, and UC Riverside.

Please apply online at: https://webapps.cm.edu/jobs/faculty/faculty_opening_detail.php?PostingID=16044. Upload (i) a cover letter describing your background, experience, and, importantly, your interest in working in a liberal arts college environment, (ii) a c.v., (iii) a succinct statement outlining your research experience and plans, including how your research might engage undergraduates, (iv) a succinct statement outlining your teaching experience and interests, (v) a statement outlining your philosophy for fostering an inclusive educational environment for students of all socioeconomic backgrounds, and (vi) the names and e-mail addresses of four references, at least two of whom can address research and at least one of whom can address teaching. All named references will be automatically contacted and sent instructions for uploading their reference letters. However, it is incumbent upon candidates to follow up with their reference-letter writers to ensure letters have been sent. Review of applications will begin October 1, 2018, and the position will remain open until filled. Further inquiries may be directed to Professor Adam Landsberg at alandsberg@kecksci.claremont.edu (please put “Experimentalist” in the subject line).

The W.M. Keck Science Department of Claremont McKenna, Pitzer, and Scripps Colleges is an Equal Opportunity Employer. In a continuing effort to enrich its academic environment and provide equal educational and employment opportunities, the department actively encourage applications from women and from members of historically under-represented social groups in higher education.

Faculty Positions in Department of Molecular Biology

The Department of Molecular Biology and the Hamon Center for Regenerative Science and Medicine (CRSM) at the University of Texas Southwestern Medical Center invite applications for tenure track faculty positions at the level of Assistant Professor. We are seeking creative and interactive individuals with strong research programs focused on mechanistic aspects of gene regulation and cellular signaling, cell growth and differentiation, and stem cell biology, including the use of cellular and animal models to study development and disease. Attractive recruitment packages, state-of-the-art core facilities, and exceptional laboratory space are available. UT Southwestern has a vibrant graduate program and an atmosphere of collegiality and collaboration.

Appointment rank will be commensurate with academic accomplishments and experience.

Candidates should apply online at https://jobs.utsouthwestern.edu/ (search for Job# 334883 or Job# 334889). Applicants should also submit a curriculum vitae containing a summary of past research accomplishments, a statement of future objectives, and names of three references via email to:

 MolBioSearch@UTSouthwestern.edu
 Department of Molecular Biology
 Hamon Center for Regenerative Science and Medicine
 University of Texas Southwestern Medical Center

UT Southwestern Medical Center is an Affirmative Action/Equal Opportunity Employer. Women, minorities, veterans and individuals with disabilities are encouraged to apply.

 USC Stem Cell

Keck School of Medicine of USC
Department of Stem Cell Biology and Regenerative Medicine
Assistant Professorship in Stem Cell Biology and Regenerative Medicine

The Department of Stem Cell Biology and Regenerative Medicine (stemcell.keckusc.edu) is recruiting candidates exploring stem cells, development and regenerative processes through tissue engineering, modeling, and genetic, genomic and biochemical approaches. We are particularly interested in candidates with strong, complementary computational expertise. The department is housed in the Eli and Edythe Broad Center for Regenerative Medicine and Stem Cell Research within the Keck School of Medicine of USC.

Excellent resources and strong collaborative opportunities exist across USC campuses. In addition to our translational research mission, department members play a critical role in the university’s educational mission. Successful applicants will receive a generous start-up package.

Online applications will be accepted; please apply to:
facultypositions.usc.edu/FAQ/application
position?PostingID=REQ20062328

Applications should include a letter of interest, curriculum vitae, brief 2–3 page outline of research past, present and future, and four letters of reference. The applicant is responsible for ensuring that the completed application is received before October 12, 2018.

USC strongly values diversity and is committed to equal opportunity in employment. Women and men, members of all racial and ethnic groups, people with disabilities, and veterans are encouraged to apply.
The Department of Chemistry at Boston University invites applications from outstanding candidates for an Assistant Professor tenure track position in the field of Synthetic Inorganic or Organometallic Chemistry, beginning July 1, 2019, subject to budget approval. Candidates with research focus broadly defined in the areas of metal complex synthesis, with applications in organometallic or coordination chemistry catalysts, small molecule conversion, solar fuels, recycling, or energy/sustainability are particularly encouraged to apply.

The successful applicant will benefit from the department’s supportive and collegial environment, which includes close affiliations with Boston University’s Materials Science & Engineering Division, the Photonics Center, the Biogeoecology Program, and the Institute for Sustainable Energy. Undergraduate teaching responsibilities will be in the areas of inorganic and general chemistry, with the opportunity to develop graduate courses in the candidate’s area(s) of expertise. Boston University expects excellence in teaching and in research and is committed to building a culturally, racially, and ethnically diverse scholarly community. Applicants should apply by submitting a letter of interest, including teaching and research objectives, and a statement of their experiences in mentoring, diversity and inclusion, a current CV, and arrange to have three letters of reference submitted via AcademicJobsOnline.org, job reference #11560. Review of applications will begin on October 8, 2018.

We are 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.

We are a VEVRAA Federal Contractor.

The Department of Molecular, Cellular, and Developmental Biology (MDCDB) in the College of Literature, Science and the Arts at the University of Michigan solicits applications for faculty positions at the assistant professor level, but appointment at a more senior level is possible for applicants with suitable experience. The faculty position will be tenure or tenure track with a university year appointment starting September 1, 2019 or January 1, 2020. Successful candidates will be expected to establish a vigorous, extramurally funded research program and to be involved in instruction of both undergraduate and graduate students.

We welcome applications from outstanding biologists in any area of research within the scope of the department, which includes studies of model organisms (plants, animals, and microbes) with a variety of approaches (genetics and genomics, biochemistry and structural biology, molecular biology, cell and developmental biology, and physiology). For further information about MDCDB research areas, please visit www.lsa.umich.edu/mcdb.

All applications must be submitted on-line at https://apps-prod.medcb.lsa.umich.edu/search18/index.php. You will be asked to upload the following materials: A cover letter, a curriculum vitae, a brief summary of recent research accomplishments and statement of future research plans, a statement of teaching interests and philosophy, and evidence of teaching excellence for those who have teaching experience. Candidates for appointment as an assistant professor should provide names and contact information for at least three references, as instructed in the on-line application form. To ensure full consideration, all materials should be received by October 12, 2018.

Women and underrepresented minorities are encouraged to apply. The University of Michigan is supportive of the needs of dual career couples and is an Equal Opportunity/Affirmative Action Employer.

The University of Rochester Medical Center (URMC) is expanding its research activities in the area of biomedical informatics. We are seeking investigators at the Assistant or Associate Professor level with independent and collaborative research programs. Six to ten faculty will be recruited into tenure track positions over the next three years.

We are searching for investigators with expertise in the broad areas of bioinformatics and systems biology as applied to a research program studying infectious disease. Successful candidates will hold appointments in the newly founded CBI and the Department of Microbiology and Immunology. Investigators with research experience in the following areas are highly encouraged to apply: Genome and transcriptome informatics, systems biology, population genomics, machine learning, data mining, computational modeling, multi-dimensional integration of clinical, genomic, microbiome, metabolome, gene expression and epigenetic data. URMC offers attractive start-up packages and has a strong commitment to career development. The successful candidate is expected to develop a competitive research program, attract external funding, and participate in graduate education.

Major recent institutional investments have created an outstanding research data-driven infrastructure, exemplified by the Health Sciences Center for Computational Innovation, and the recent $50 million University investment to build the Goergen Institute for Data Science.

Applicants should submit a letter of application, CV, statement of research interests/plans, and arrange to have three letters of recommendation sent to: anne_reed@urmc.rochester.edu. Inquiries can be directed to Dirk Bohmann (dirk.bohmann@urmc.rochester.edu) or David Topham (david.topham@urmc.rochester.edu).

The University of Rochester is an Equal Opportunity Employer and has a strong commitment to diversity; it actively encourages applications from groups underrepresented in higher education.

The Wilmot Cancer Institute at the University of Rochester Medical Center is currently recruiting tenure-track faculty as part of a major expansion of its translational and basic science research base. The successful candidate(s) will join a growing multidisciplinary cancer research community with ongoing emphases in cancer cell metabolism, cancer stem cell biology, RNA biology, cancer (epi)systems biology, microenvironment influences on tumor behavior, immunology, and therapeutic resistance.

The Wilmot Cancer Institute is the hub of cancer research at the University of Rochester, attracting more than $20M in cancer-directed funding annually. Formal research programs exist in Cancer Biology, Tumor Microenvironment and Immunology, and Cancer Control and Survivorship. The Wilmot Cancer Institute and UR Medicine are the major providers of comprehensive, multidisciplinary cancer care in central New York State and the Finger Lakes region, with ~6000 new patients every year and an extensive clinical trials program providing opportunity for innovative translational research.

Candidates holding a PhD and/or MD degree with a demonstrated track-record of research accomplishment in an area relevant to cancer biology/cancer genomics are invited to apply. Applicants making use of genomic/epigenomic approaches, tumor model systems and/or human specimens to address problems of translational relevance are strongly encouraged. New faculty will benefit from vibrant graduate/professional training programs and state of the art infrastructure and core facilities as well as a strong institutional commitment to career development. Appointments will be made at the Assistant Professor level although outstanding candidates at other levels will be considered, with commensurate expectations of research and funding accomplishment. Departmental affiliation will be determined according to best fit.

Interested applicants should submit a CV, statement of research interests/plans, pdfs of two key publications, and three letters of recommendation to the Search committee chair Paula Vertino, PhD c/o Elva Mikk at Elva_Mikk@urmc.rochester.edu. Review of applications will start October 15, 2018.

The University of Rochester is an Equal Opportunity Employer and has a strong commitment to diversity and actively encourages applications from candidates from groups underrepresented in higher education.
Faculty Positions in the Department of Physiology

The Department of Physiology at the Perelman School of Medicine at the University of Pennsylvania seeks highly qualified candidates for faculty positions in the tenure track at the Assistant, Associate, and Full Professor ranks. Responsibilities include establishing and conducting an independent research program, plus teaching, supervising, and mentoring students. These positions require an M.D., Ph.D., or equivalent degree, plus demonstrated excellence in research. Candidates with experience in molecular, cellular, or organismal physiology will be considered. Investigators with research programs that leverage molecular and cellular insights to inform physiological, cell biological and pathophysiological functions are strongly encouraged to apply. We also seek researchers who develop and use novel and state-of-the-art biophysical, cell biological and physiological techniques. Research areas of interest include membrane protein structural biology, membrane transport physiology, signal transduction, organelle biology, molecular bases of disease, and metabolism. Other areas will also be considered, with the novelty, importance and potential impact of the research emphasized.

Assistant Professor: Applicants in the early stage of career development are encouraged to apply. Apply online: https://www.med.upenn.edu/apps/faculty_ad/index.php/g311/d5142

Associate or Full Professor: Applicants are expected to have funding and an internationally recognized reputation of innovative research excellence and productivity. Apply online https://www.med.upenn.edu/apps/faculty_ad/index.php/g311/d5126

The Perelman School of Medicine, one of the top ranked medical schools in the country for NIH funding, is a highly collaborative environment with extensive core facilities. It is located on the campus of the University of Pennsylvania, a world-class institution with an easily walkable campus located near central Philadelphia.

We seek candidates who embrace and reflect diversity in the broadest sense. The University of Pennsylvania is an EOE. Minorities/Women/Individuals with disabilities/Protected Veterans are encouraged to apply.

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Postdoctoral Fellow/Staff Scientist Positions in Cancer Epigenomics

The newly established Laboratory of Cancer Genomics in the Wilmot Cancer Institute at the University of Rochester Medical Center, led by Dr. Paula Vertino, is seeking productive and highly motivated individuals interested in cancer epigenetics/genomics. Current studies make use of molecular genetic and genomic approaches to understand epigenetic control of transcription and its role in phenotypic plasticity, intratumor heterogeneity and the emergence of invasive or drug resistant properties. Translational epigenetics studies in human cancers are focusing on defining epigenomic/genomic signatures associated with environmental exposures and patient outcomes with the goal of identifying novel routes for cancer therapy.

Applicants should hold a PhD in the biomedical sciences, computational biology or related discipline with experience in molecular/cancer biology, (epi)genetic/omics, and/or bioinformatics. Wet and/or ‘dry’ lab experience with epigenomics technology/data (WGBS, ChiP-seq, ATAC-seq, Pro-seq/ RIP-seq), single-cell approaches, RNA biology, gene editing, or cancer models (3D culture, spheroïd/organoid) are highly desirable, but applicants with a strong background in a related area, track-record of accomplishment, and desire to work in a multidisciplinary team of investigators focused on cancer epigenetics will be considered. Computational scientists (MS/PhD) with expertise in bioinformatics, systems biology and machine learning approaches are also encouraged to apply. Candidates should have excellent scientific writing and oral communication skills, as well as the ability to work effectively and collaboratively with others. Information about living/ working at University of Rochester can be found at https://www.rochester.edu/working/hr/ relocation/

Interested applicants should submit a cover letter, CV and contact information for three references to Ms. Elva Mikk, Wilmot Cancer Institute, University of Rochester, 601 Elmwood Avenue Rochester, NY 14642, or e-mail at: elva_mikk@urmc.rochester.edu

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Faculty Positions in Neuroscience

The Ohio State University (OSU), Wexner Medical Center

The Department of Neuroscience invites applications for tenure-track faculty positions at the rank of Assistant, Associate or Full Professor.

As part of an ongoing commitment to place OSU at the forefront of patient care, research and innovation, The College of Medicine is committing significant resources to build cutting-edge and internationally recognized basic and translational neuroscience programs. We have a goal that the Department of Neuroscience will become a Top 10 nationally-ranked department within 5 years.

Candidates who study the mechanisms underlying normal nervous system function and/or how these mechanisms and interactions are affected by disease or injury are encouraged to apply. Candidates with technical expertise in functional imaging, optogenetics, bioengineering, electrophysiology or -omics-based technologies (genomics, proteomics, metabolomics, connectomics, etc.) will be prioritized.

We are currently prioritizing candidates with the interest in the following areas: (a) neurovascular interactions in disease, (b) neuronal plasticity, (c) computational neuroscience, and (d) computational methods for brain imaging.

Applicants must hold a Ph.D. or equivalent and at least 3 years postdoctoral experience with a strong record of scholarly activity. Candidates for appointment as Associate or Full Professors should also be nationally or internationally recognized scholars with consistent externally funded research programs. Prospective candidates should send a statement of research interests, vita and a list of three references to recuittionsnurosci@osumc.edu. Applications are being accepted now and formal review will begin August 30, 2018. The search will remain open until all positions are filled.

The Ohio State University is an Equal Opportunity/Affirmative Action Employer and as such, women and minorities are encouraged to apply. Unless confidentiality is requested in writing, information regarding the applicants must be released upon request.
The Departments of Mathematics and Biology invite applications at the level of Associate or Full Professor for the Calabi-Simons Chair in Mathematics and Biology. This is a permanent endowed chair for which we are seeking an exceptional mathematical biologist or a mathematician with strong biological interests. The chair-holder will help build excellence in this field at Penn and provide leadership in enhancing interactions between the Mathematics and Biology departments. Responsibilities include teaching undergraduate and graduate courses in Mathematics and Biology and conducting research in the field. The Simons Foundation provides generous programmatic funds, which could support graduate students and postdoctoral fellows as well as seminars and conferences.

Applications should be submitted online through mathjobs.org and include the following items: a cover letter, a vision statement on building a program in mathematics+biology, curriculum vitae, research statement, and a publication list. Review of applications will begin on October 15, 2018 and will continue until the position is filled. It is anticipated that the position will start July 1, 2019.

The Departments of Mathematics and Biology are strongly committed to Penn’s Action Plan for Faculty Diversity and Excellence and to creating a more diverse faculty (for more information see: http://www.upenn.edu/alanac/volumes/v58/n02/diversityplan.html). The University of Pennsylvania is an EOE. Minorities/Women/Individuals with disabilities/Protected Veterans are encouraged to apply. Please address any questions to: personnel@math.upenn.edu.
COLUMBIA UNIVERSITY
Vagelos College of Physicians and Surgeons

The Department of Surgery in the Vagelos College of Physicians and Surgeons and the Department of Biomedical Engineering in the School and Engineering and Applied Science are pleased to invite applications for a tenure-track faculty position at Columbia University in the City of New York. Applications at the level of Assistant, Associate or Full Professor will be considered. Candidates are sought in the broad area of Tissue Engineering and Regenerative Medicine. The selected candidate is expected to develop and lead an original externally funded research program, and to contribute to the research and educational missions of the Departments of Surgery and Biomedical Engineering. The University offers a rich environment for multidisciplinary research and encourages collaborations amongst clinical and basic science departments. This position seeks candidates who will develop research across the fields of tissue engineering, regenerative medicine, stem cell biology, and surgical disciplines. An ideal candidate will strengthen ties between the Departments of Surgery and Biomedical Engineering, building upon existing strengths in the use of cellular, tissue and whole organ engineering, and regenerative medicine to treat diseases of the cardiovascular, pulmonary and digestive systems. The University is especially interested in qualified candidates who can contribute, through their research, teaching, and service, to the diversity and excellence of the academic community. Requirements include MD, PhD or its professional equivalent in biomedical engineering or a related field, a record of pioneering research in the area of Tissue Engineering and Regenerative Medicine, and demonstrated abilities to attract extramural research funding and to teach effectively. Candidates should apply online and upload a curriculum vitae, statement of current and future research (1-2 pages), and contact information for three experts who can provide letters of recommendation.

Application link: academioc.us.columbia.edu/applicants/Central?quickFind=66483

The Department of Surgery and Department of Systems Biology in the Vagelos College of Physicians and Surgeons are pleased to invite applications for a tenure-track faculty position at Columbia University in the City of New York. Applications at the level of Assistant, Associate or Full Professor will be considered. Candidates are sought with specific research interests in applying systems biology approaches to questions in immunology of translational relevance to human diseases. Collaborations with groups studying the anatomy of the immune responses in mice and humans in health and disease are particularly encouraged. Columbia University Medical Center provides a highly interactive, collaborative environment for pursuing studies in systems biology. Candidates are expected to develop an independent peer-reviewed funded research program. In addition to setting up a vibrant research program in systems immunology, the candidate is expected to participate in the training of graduate students and surgical residents, and participate in the teaching of graduate students. Candidate should also participate in both systems biology and immunology seminar series and serve as a member of the research committee in the Department of Surgery, PhD, MD or its professional equivalent required. Candidates should apply online and upload a curriculum vitae, statement of current and future research (1-2 pages), and contact information for three experts who can provide letters of recommendation.

Application link: academioc.us.columbia.edu/applicants/Central?quickFind=66484

PURDUE UNIVERSITY

DEPARTMENT OF MEDICINAL CHEMISTRY AND MOLECULAR PHARMACOLOGY

FACULTY POSITION IN CANCER BIOLOGY

The department of Medicinal Chemistry and Molecular Pharmacology (MCP) (http://www.mcp.purdue.edu) in conjunction with the NCI designated Purdue Center for Cancer Research (https://www.cancerresearch.purdue.edu/) invites applications for a TENURED / TENURE-TRACK FACULTY POSITION at all ranks. Preference will be given to qualified candidates with strong programs in Translational Cancer Biology focused on targeted therapies of signal transduction, epigenetics, immunotherapy and animal models of disease.

The department offers a unique multidisciplinary and collaborative environment with synergistic strengths in both chemistry and biology, spanning a wide range of topics including signal transduction, epigenetics, structural and computational biology, molecular pharmacology, systems biology, chemical biology, medicinal chemistry and drug discovery. In addition to the cancer center the MCP department also contributes significantly to Purdue Institute for Integrative Neuroscience (http://www.purdue.edu/discoverypark/pillars/integrative-neuroscience-center/index.php), Purdue Institute for Inflammation, Immunology and Infectious Disease (http://www.purdue.edu/discoverypark/pillars/piid/index.php), and Purdue Institute for Drug Discovery (http://www.purdue.edu/discoverypark/drug-discovery/).

Purdue University is investing more than $250 million in the life sciences over the next five years and offers state-of-the-art facilities for transgenic animals, imaging, genomics, bioinformatics, proteomics and metabolomics, NMR, X-ray crystallography, CryoEM, and chemical genomics. Faculty have the opportunity to train graduate students in the departmental and university-wide interdisciplinary programs. Highly competitive salary, start-up funds and laboratory space will be provided.

Candidates must have a Ph.D. degree or equivalent in Cell Biology, Biochemistry, Pharmacology or a relevant scientific discipline and relevant post-doctoral experience. The successful candidate will be expected to establish and/or maintain a strong extramurally-funded research program and will participate in undergraduate, professional, and graduate education/teaching.

Applications should consist of (1) a cover letter including the names and contact information of three references, (2) a curriculum vitae, (3) a statement of teaching philosophy and experience, and (4) a summary of planned and/or ongoing research. These materials should be submitted electronically to https://bit.ly/2NmdVkV. Please contact Barb Mullenberg at davidsbsa@purdue.edu if you have questions about uploading documents or the search. For technical assistance, please email careers@purdue.edu (mailto:careers@purdue.edu)

Review of applications will begin on October 15, 2018 and will continue until the position is filled. Applications will be held in confidence until the interview phase of the process, and the applicants’ permission to contact references prior to that time will be obtained. A background check will be required for employment in this position.

Purdue University’s Department of Medicinal Chemistry and Molecular Pharmacology is committed to advancing diversity in all areas of faculty effort, including scholarship, instruction and engagement. Candidates should address at least one of these areas in their cover letter, indicating their past experiences, current interests or activities, and/or future goals to promote a climate that values diversity and inclusion.

Purdue University is an EOE/AA Employer. All individuals, including minorities, women, individuals with disabilities, and veterans are encouraged to apply.
FACULTY POSITIONS

UNIVERSITY OF ILLINOIS AT CHICAGO, DEPARTMENT OF CHEMISTRY invites applications for a tenure-track assistant professor in inorganic chemistry with a focus on bioinorganic systems. The Department of Chemistry at UIC is committed to diversity and encourages applications from women and members of minority groups. The successful candidate will join an active and collaborative research group and be expected to teach inorganic chemistry, bioinorganic chemistry, and general chemistry. The University of Illinois at Chicago is an Affirmative Action, Equal Opportunity Employer and a member of the Coalition of Urban Research Universities (CURU). Women, minorities, and individuals with disabilities are encouraged to apply. EOE/AA/M/F. The position will begin on August 16, 2019. Candidates should submit an online application including a cover letter, curriculum vitae, a statement of research and teaching interests, a statement of diversity and inclusion, and the names of three references to: http://www1.umn.edu/jobs/applications/EQOE/101540.

The University of Minnesota invites applicants to serve as Director of the University of Minnesota Nuclear Magnetic Resonance Center (http://nmr.umn.edu). The Director is expected to provide overall academic leadership for the Center and represent the unit both inside and outside the University. The Director is responsible for all operations of the center and related research facilities and equipment, including the operation of state-of-the-art NMR spectrometers including a 900, 850, two 700 and two 600 MHz spectrometers equipped with cryogenic probes. In addition, two solid-state NMR spectrometers are equipped with MAS and static NMR probes. The center Director is expected to maintain an active and vibrant research program and be a leader in the community of scholars studying cellular biophysics. Preference will be given to scientists focusing on structural and functional analysis of biologically relevant macromolecules. The successful candidate will be tenured in the Department of Biochemistry, Molecular Biology and Biophysics of the Medical School. Candidates must have a Ph.D. or equivalent degree in Biochemistry, Chemistry or a related field and be able to teach undergraduate and graduate level biochemistry and biophysics courses. The University of Minnesota provides equal access to and opportunity in its programs, facilities, and employment without regard to race, color, creed, national origin, gender, age, marital status, disability, public assistance status, veteran status, sexual orientation, gender identity, or gender expression. The University supports the work-life balance of its faculty and especially encourages applications from women and members of under-represented groups.

GEISEL SCHOOL OF MEDICINE AT DARTMOUTH SEeks outstanding candidates for position of Professor and Chair, Department of Molecular and Systems Biology

Dartmouth

GEISEL SCHOOL OF MEDICINE AT DARTMOUTH SEeks outstanding candidates for position of Professor and Chair, Department of Molecular and Systems Biology

Created in 2016, the Department of Molecular and Systems Biology encompasses a community of bioinformaticists, cancer biologists, neurobiologists, physiologists, molecular pharmacologists, and data scientists committed to using interdisciplinary approaches to solve complex problems in biological systems. We seek an innovative scientist and scholar to lead this innovative department. Successful candidates will be recommended for appointment as Professor with tenure. Candidates must possess a terminal degree (Ph.D., MD, or equivalent); a distinguished and active record record of extramurally sponsored research; a history of excellent peer-reviewed scholarship; demonstrated expertise and commitment to graduate teaching; and a strong track record of leadership, mentoring/supporthip, and sponsored research. All applications will be considered for an interview. Applications received by December 31, 2018 will be given preference. We strongly encourage applications from women and members of minority groups. Women, minorities, and individuals with disabilities are encouraged to apply. The University of Rochester is an Affirmative Action/Equal Opportunity Employer. Applicants should submit an online application including a cover letter, curriculum vitae, statement of research and teaching interests, a statement of diversity and inclusion, and the names of three references to website: http://www.rochester.edu/faculty-recruiting/positions.

FACULTY POSITIONS IN MOLECULAR CARDIOVASCULAR BIOLOGY

The University of Wisconsin-Milwaukee seeking applicants for a tenure-track faculty position in the area of organic chemistry. The Department of Chemistry at UWM is an Equal Opportunity/Affirmative Action employer. Women, minorities, and individuals with disabilities are encouraged to apply. The University of Wisconsin-Milwaukee provides equal access to and opportunity in its programs, facilities, and employment without regard to race, color, creed, national origin, gender, age, marital status, disability, public assistance status, veteran status, sexual orientation, gender identity, or gender expression. The University supports the work-life balance of its faculty and especially encourages applications from women and members of under-represented groups.

Position OPEN

SAINT LOUIS UNIVERSITY

FACULTY POSITIONS DEPARTMENT OF BIOCHEMISTRY AND MOLECULAR BIOLOGY

SAINT LOUIS UNIVERSITY, GEISEL SCHOOL OF MEDICINE

Saint Louis University, a Catholic Jesuit institution dedicated to education, research, health care, and service, is seeking outstanding applicants for tenure-track faculty positions, open rank, in the Edward A. Doisy Department of Biochemistry and Molecular Biology (http://biochem.slu.edu/). We are specifically interested in research programs focused on the structural and functional analysis of biologically relevant macromolecules, including genetic and/or metal-based imaging and therapeutic agents. Candidates would have the opportunity to interact with and collaborate with pharmacologists, and data scientists committed to using interdisciplinary approaches to solve complex problems in biological systems. We seek an innovative scientist and scholar to lead this innovative department. Successful candidates will be recommended for appointment as Professor with tenure. Candidates must possess a terminal degree (Ph.D., MD, or equivalent); a distinguished and active record record of extramurally sponsored research; a history of excellent peer-reviewed scholarship; demonstrated expertise and commitment to graduate teaching; and a strong track record of leadership, mentoring/supporthip, and sponsored research. All applications will be considered for an interview. Applications received by December 31, 2018 will be given preference. We strongly encourage applications from women and members of minority groups. Women, minorities, and individuals with disabilities are encouraged to apply. The University of Rochester is an Affirmative Action/Equal Opportunity Employer. Applicants should submit an online application including a cover letter, curriculum vitae, statement of research and teaching interests, a statement of diversity and inclusion, and the names of three references to website: http://www.rochester.edu/faculty-recruiting/positions.

SAINT LOUIS UNIVERSITY is an Affirmative Action, Equal Opportunity Employer, and encourages nominations and applications of women and minorities.

Post Your Jobs

1,877,103 unique job seekers

250,657 job applications in 2016

sciencecareers.org SCIENCE
The Division of Biological Sciences at the University of Missouri (http://biology.missouri.edu) invites applications for a tenure-track position at the level of Assistant or Associate Professor. Candidates using innovative approaches to address important questions in cell biology are encouraged to apply. We seek individuals employing multiple approaches to investigate cellular processes involved in development, physiology or disease. We are particularly interested in individuals who are incorporating quantitative/computational approaches into their research. The successful candidate will establish and maintain a well-funded research program that complements our strengths in cell and molecular biology, genetics/genomics, evolution, and neurobiology. The position will provide excellent opportunities for multidisciplinary collaborations with basic and translational scientists across the University of Missouri campus.

The Division of Biological Sciences place a high value on diversity and inclusivity (http://biology.missouri.edu/diversity-outreach/diversity-statement/). We especially seek candidates with outstanding mentoring skills who welcome and appreciate the racial and cultural diversity of our academic community. We encourage applications from individuals who demonstrate a commitment towards inclusiveness and access to higher education for groups underrepresented in the sciences.

We offer a competitive salary and start-up package, a vibrant graduate program with institutional support for students, a highly interactive faculty and outstanding core facilities. Columbia, Missouri, is ranked among the top-ten college towns in the U.S.

The University of Missouri is fully committed to achieving the goal of a diverse and inclusive academic community of faculty, staff and students. We seek individuals who are committed to this goal and our core campus values of respect, responsibility, discovery and excellence.

Please apply on line at: http://hrs.missouri.edu/find-a-job/academic. Use the online application and be prepared to upload your CV cover letter, a description of research plans and teaching interests, a diversity statement addressing contributions to diversity through research, teaching, and service and names of three referees willing to write a letter if solicited. Applicants may contact the Chair of the Search Committee (bioscifacultysearch@missouri.edu) with any questions about the job duties. Contact Human Resource Services (muhrs@missouri.edu) for any questions about the application process. Review of application materials will begin October 26, 2018. To ensure full consideration, applications should be complete by this date. The position will remain open until filled.

An Equal Opportunity/Access/Affirmative Action/Pro-disabled and Veteran Employer.

Assistant Scientist in Biomedical Research, Sanford Research

Sanford Research invites applications for full-time faculty at the rank of Assistant Scientist within Sanford Research in Sioux Falls, SD, with commensurate rank of Assistant Professor at the Sanford School of Medicine at the University of South Dakota. Sanford Research is the nonprofit research branch under Sanford Health.

We seek outstanding scientists with research programs that span areas of biomedical research including but not limited to: genetics and genomics, pediatrics and rare diseases, stem cell biology, diabetes, or environmental influences of diseases. The successful candidate will have an opportunity to become a project leader on the NIH-funded Center for Pediatric Research CoBRE which focuses on key regulators of cellular plasticity that contribute to the developmental origins of pediatric disorders. Significant institutional support, including modern laboratory space and state-of-the-art facilities will be provided. A comprehensive benefits package will be tailored to the candidate’s qualifications.

Qualifications

Applicants should hold a Ph.D, M.D or MD/Ph.D degree and complement the existing strengths and interdisciplinary and collaborative nature of Sanford Research. Physician Scientists are encouraged to apply. Candidates will be expected to develop independent research programs and secure extramural funding.

Application

Sanford Health is an Equal Opportunity/Affirmative Action Employer. Applicants should submit a single PDF that includes: 1) detailed curriculum vitae, 2) description of research experience and future research plans with details on relevance of their research to genetics and genomics, pediatrics and rare diseases, stem cell biology, diabetes, or environmental influences of diseases, and 3) three letters of recommendation. If any of the information above is missing, the submission will not be considered. Submit materials via email to: researchrecruitment@sanfordhealth.org

Tenure Track Assistant Professor in Synthetic Chemistry

As part of WPI’s systems biology initiative, the Chemistry and Biochemistry Department invites applications for a tenure-track faculty position in chemical synthesis beginning in August 2019. Synthetic organic, synthetic inorganic, and/or biosynthetic chemists interested in biological problems are particularly encouraged to apply. Colleagues joining our research enterprise will benefit from an intimate, highly collaborative research environment with current strengths that include drug discovery, drug delivery, membrane biochemistry, and cell signaling. The successful applicant will develop a vigorous, externally funded, internationally highly regarded research program. A strong commitment to teaching in the undergraduate and graduate curricula is expected. Applicants for a senior position must have a strong record of high impact publications and funding.

WPI’s reputation as a rigorous and innovative university rests on the shoulders of its faculty. A highly selective, private STEM focused university and one of the nation’s first, WPI believes that when great minds work together, great advances follow. At WPI the boundaries to multidisciplinary collaboration are low; faculty members, students, and other partners work together on the real-world projects and purposeful research that are hallmarks of the WPI experience. We are most proud of a recent No. 1 ranking for “faculty who best combine research and teaching.” (Wall Street Journal/Times Higher Ed, 2016). Located one hour west of Boston, the university’s campus is in Worcester, Massachusetts, a thriving 21st century college city recognized as a growing hub of scientific and technological innovation.

To apply, visit: http://apptrkr.com/1281630

WPI is an Equal Opportunity Employer

GREAT MINDS at WORK
Career Feature:
Artificial Intelligence
Issue date: November 30
Book ad by November 15
Ads accepted until November 21 if space allows

129,562
subscribers in print
every week

503,472
monthly unique browsers
on ScienceCareers.org

56 %
of our weekly readers
are Ph.D.s

Artificial Intelligence (AI) is impacting science in new and exciting ways as scientists are using it to better understand society to find solutions to problems across diverse disciplines. This feature will give an overview of AI, and explore the hotspots/centers of excellence and applications for AI. Typical career paths for those working in AI will be explored as well as the opportunities that exist for careers in AI.

Your organization can brand itself as a leader in AI by raising your visibility alongside relevant content while attracting potential candidates. Contact us for further details.

What makes Science the best choice for recruiting?
- Read and respected by 400,000 readers around the globe
- Your ad dollars support AAAS and its programs, which strengthens the global scientific community.

Why choose this AI Feature for your advertisement?
- Relevant ads lead off the career section with a special "AI" banner.

Expand your exposure by posting your print ad online:
- Link on the job board homepage directly to AI jobs
- Dedicated landing page for AI positions.
POSTDOCTORAL OPPORTUNITIES

Yale

YALE UNIVERSITY SCHOOL OF MEDICINE
POSTDOCTORAL ASSOCIATE
Infectious Disease Pathogenesis/Immunology

Positions available to study the interactions between ticks, pathogens and the vertebrate host. The goal is to develop new strategies to prevent diverse tick-borne infections, such as Lyme disease, anaplasmosis, babesiosis and Powassan virus. An M.D. or Ph.D. in microbial pathogenesis, immunobiology, entomology, cell biology or molecular biology is necessary.

Send curriculum vitae and recent publications to: Erol Fikrig M.D., Investigator, Howard Hughes Medical Institute, Yale University School of Medicine, Section of Infectious Diseases, P.O. Box 208022, New Haven, CT 06520-8022 or email: lynn.gambardella@yale.edu. Yale University is an Affirmative Action, Equal Opportunity Employer. Applications from women and minorities are encouraged.

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FROM THE JOURNAL SCIENCE NAAAS

THE SERRA HÚNTER PROGRAMME
announces an opening of 122 academic positions at the Catalan Public Universities

› serrahunter.gencat.cat/en
› The deadline for applications is september 16th 2018

Generalitat de Catalunya
Government of Catalonia