Peking University Third Hospital—
Healthcare, Education and Innovation for 60 years

Jie Qiao, M.D.
President of The Peking University Third Hospital

2018 marks the 60th anniversary of the founding of Peking University Third Hospital (PUTH), which was founded in October 1958 under the supervision of the Ministry of Health. As a hospital affiliated to China’s first national comprehensive university in China, PUTH is young and energetic, enjoying a rapid pace of development. Consistently ranked as a top tertiary hospital nationwide, PUTH integrates world-class medical services with cutting-edge medical research and first-rate medical education. Currently, it has a total of 7 campuses and over 6000 faculty and staff members. It has produced many notable scientists with national and international reputations, including one academican of the Chinese Academy of Sciences (CAS) and one academican of the Chinese Academy of Engineering (CAE).

Over the past 60 years, PUTH has always ranked among the capital’s top hospitals by providing high quality medical care. In 2017, the hospital received more than 4 million ambulatory and emergency visits. The annual discharge number was over 100,000, the annual operation number over 60,000, and the average length of stay was 5.78 days. Among the inpatients with intractable diseases, about 1/3 are from the other parts of China.

In accordance with the principle of academic excellence, PUTH endeavors to establish world-class disciplines and research platforms, cultivate high-level experts with global vision, and provide excellent medical education. PUTH boasts one National Clinical Research Center, three Ministry of Education Key Laboratories, one Ministry of Health Key Laboratory, and over 5,000 square meters for Public Laboratory Service. Its faculty members have held over 40 positions as chief editors of top journals which are included in the China Scientific and Technical Papers and Citations Database (CSTPCD), over 110 positions in academic associations/societies, and won many international awards.

PUTH has a strong sense of social responsibility and is actively engaged in China’s public hospital reform. In recent years, it has undertaken many key national projects and programs, with research findings widely adopted by relevant government sectors. With improved management skills, it has played an exemplary role in clinical pathway, care service, counterpart support, and the Aid Program for Tibet and Xinjiang. Meanwhile, PUTH is also a care provider for unexpected emergencies on important occasions, such as the Beijing 2008 Summer Olympics, the 60th anniversary of the People’s Republic of China, and many earthquake and disaster relief projects.

With 60 years of history, PUTH has created its distinct culture. All PUTH people will follow the motto of “Unity, Dedication, Practicability and Creativity”, and through high medical skills and a strong sense of duty, strive to become a medical center of national prominence, a diagnosis and treatment center for rare and grave diseases, a research center for clinical medicine, and a training base for medical experts.

The Department of Cardiology

The Department of Cardiology, as a key clinical discipline, boasts a key Cardiovascular Molecular Biology and Regulatory Peptides Laboratory. Committed to addressing the clinical problems of major cardiovascular diseases, our department conducts basic research on the risk factors and pathogenesis of coronary heart disease and heart failure, precautionary function of biomarkers, and the protective mechanisms of cardiac rehabilitation, from the aspects of susceptibility genes, biomarkers, receptors in cardiovascular diseases, drug therapy and exercise rehabilitation. Taking full advantage of its asset as part of a comprehensive hospital, our department has made progress in many fields, such as the diagnosis and treatment of critical cardiovascular disease, the evaluation of coronary artery disease, hybrid coronary intervention (HCR) and minimally invasive surgical bypass grafting, cardiac rehabilitation and cardiovascular drug safety. Over the past decade, the department has built and improved its many platforms, i.e. for cardiovascular function analysis, omics and medical bioinformatics, clinical trial on internationally standardized drugs, and cardiac rehabilitation. It has established a coronary heart disease cohort, a biorepository containing over 13,000 samples, as well as a big data platform for Cardiovascular Disease Resource Repository, which collects research data on coronary heart disease, heart failure, hypertension, and arrhythmia with a follow-up system for quality assurance, laying a solid foundation for clinical research.

The Department of Gynecology and Obstetrics

Founded in 1958, the Obstetrics and Gynecology (OB-GYN) Department at PUTH is famous as the birthplace of the first IVF-ET baby in mainland China. As a national clinical and applied research unit for reproductive health and related diseases, it has been designated as the national Clinical Research Center for Obstetrics and Gynecology as well as the base for medical cooperation on Reproductive Health and Population between WTO and Peking University (PKU). In 2016 and 2017, our department ranked No.1 in terms of its scientific and technologic influence.

Funded by the Ministry of Science and Technology (MOST), the Ministry of Education (MOE), the Education and the Natural Science
Foundation of China (NSFC), our department has embarked on research into the molecular mechanism of human gamete development control and the pathogenesis of common reproductive diseases, and built comprehensive platforms for reproductive endocrine epidemiology research, preimplantation genetic screening (PGS) development, single-cell multi-omics sequencing and bioinformatics analysis. Among its many other achievements is the genetic, epigenetic and transcriptomic map construction of human gamete in its embryonic development, the establishment of gene regulatory networks (GRN), together with several clinical RCT studies. By now 315 SCI papers have been published by such journals as Cell, Nature, Lancet, and JAMA.

In the future, the OB-GYN Department will carry out more clinical and transformational research and establish more platforms for international cooperation for the improvement of reproductive health in China.

The Department of Ophthalmology

Established in 1958, the Department of Ophthalmology has been committed to clinic service, professional training and medical research. Our highly skilled ophthalmologists and staff provide a complete range of services on cataract, glaucoma, cornea and external disease, retinal diseases, pediatric ocular disorders, refractive and plastic surgery. Our clinical expertise and sophisticated diagnostic and treatment procedures make our department a nationwide referral center.

Currently, we have more than 170 faculty members, including 13 full professors and 21 associate professors, with an annual average of about 260,000 outpatients and 16,000 surgeries. In 2017, our department was ranked 6th nationwide in terms of its scientific and technological influence.

In the last five years, our physician-scientists have received more than 20 research grants worth about RMB 15 million from the government and 41 grants approximately RMB 11.62 million from NGOs. We published more than 90 peer-reviewed papers and boasted 20 patent claims. As the base of Beijing Key Laboratory of Ophthalmology, we focus our research on the following fields:

1. Stem cell study in glaucoma and Age-related Macular Degeneration (AMD)
2. Neuroprotection of retina ganglion cell
3. Clinical trial on ocular trauma, secondary glaucoma and corneal disease
4. Visual stimulation and vision-related neuroplasticity
5. Ocular Surface Bioengineering

We will keep updating knowledge and technology to provide greater customer service.

The Department of Orthopedics

Since its establishment in 1958, the Department of Orthopedics at PUTH has been the pioneer in the surgical treatment of lumbar disc herniation and cervical spondylosis, and won great fame ever after, particularly for its spine surgery, at home and abroad. After 60 years of unremitting efforts, our department has become an integrative medical center specialized in spine, joints and trauma related diseases. Committed to medical treatment, training, research and recuperation, our department is one of the most important orthopedic centers in China and ranks top three nationally in its discipline recognition and scientific & technological influence.

Guided by the motto, “Healing with compassion, leading with excellence”, our department continues to gather and cultivate talents as the main strategy for improving its overall strength, to develop and adopt innovative treatment technologies to facilitate clinical diagnosis, and to conduct research on both common and intractable orthopedic diseases.

In recent years, our department has intensified the establishment of research platforms. Now we boast a complete set of platforms for clinical research, basic research and translational research, having made breakthroughs in the development of orthopedic implant devices, particularly by adopting microporous titanium alloy in spine surgery with the aid of 3D printing technology.

The Department of Sports Medicine

Peking University Institute of Sports Medicine, established in January 1959 by Professor Qu Mianyu, is the oldest and most prestigious of its kind in China. It provides a full range of medical services, teaching and research in four subspecialties: sports traumatology, sports rehabilitation, sports nutrition, and medical supervision.

As the only Prevention and Treatment Center for Sports Injuries and Diseases designated by China General Administration of Sport (SGAS), our institute takes the lead in every aspect, providing medical coverage for 36 national and Beijing municipal sports teams, attending to about 15,000 athletes (over 60 Olympic champions) every year. It also provides top-level healthcare for the general community, with over 120,000 outpatient visits and 7,200 surgical operations per year. For more than a half century, it has made exceptional contributions to the success of China’s competitive sports in the world.

As the base of the Beijing Key Laboratory of Sports Injuries, the institute has formed a multidisciplinary research platform including molecular biology, cell biology, histopathology, biomechanics, molecular imaging, materials science and tissue engineering, etc. Its research interests mainly include:

1. understanding the pathogenesis of common sports injuries and degenerative joint diseases, and identifying novel therapeutic approaches;
2. tissue engineering technology for treatment of joint injuries;
3. the effects of exercise on human physiology and biochemistry and the underlying mechanism;

PUTH cordially welcomes job applicants and visiting scholars with expertise in related areas. Feel free to contact us:
Website: http://www.puh3.net.cn
Email: puthdyb@bjmu.edu.cn
Tel: +86-10-82266699
Fax: +86-10-62017700
Address: Peking University Third Hospital, 49 North Garden Road, Beijing, China. 100191
**Research Fellow Position with CDC/NIOSH**

Morgantown, WV

The National Institute for Occupational Safety and Health (NIOSH) at CDC is pleased to announce a research fellowship opening in the Receptor Biology Laboratory, located in Morgantown, WV. The research aims at understanding molecular and mechanistic events involved in the development of occupational diseases, with potential emphasis on pulmonary inflammation, fibrosis, and cancer that result from exposure to particulates, nanomaterials, and small chemicals.

**QUALIFICATIONS**

(1) A Ph.D. or Master's degree in molecular biology, biochemistry, immunology, toxicology, pharmacology, or cancer research; (2) Experience conducting in vivo and in vitro studies evaluating molecular and mechanistic changes as a result of exposure; (3) Experience in developing and characterizing rodent models of pathologic phenotypes is desirable; (4) Excellent communication skills and the ability to work effectively and collegially. A strong background in molecular and transgenic approaches relating to disease and pathologic effects, and a good understanding of and experience in biochemistry, immunology, toxicology, and lung disease are highly desirable.

Salary is dependent upon academic degree and experience. NIOSH is an Affirmative Action/Equal Opportunity Employer. Send a letter with research experience and interests, Curriculum Vitae, and contacts of three references via email to: Dr. Qiang Ma at qam1@cdc.gov.

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**VANDERBILT UNIVERSITY MEDICAL CENTER**

An immediate opening for a postdoctoral position exists at Vanderbilt University Medical Center. The project is to examine the role of tumor-initiating cells in mouse models of colonic neoplasia using unique reporter mice generated in the lab. Individuals with experience in mouse genetics and confocal imaging/high-resolution microscopy are encouraged to apply. Familiarity with modern methods for precise lineage-tracing, as well as examining high-dimensional data with smFISH, and single-cell RNAseq are desirable. Funding is secure, along with a highly competitive salary and fringe benefits. Those interested should apply online via Science Careers and may contact Bob Coffey at e-mail: robert.coffey@vumc.org.

The National PKU Alliance (NPKUA) works to improve the lives of individuals with phenylketonuria and pursue a cure. NPKUA is pleased to release its 2019 Call for Research Proposals and Fellowships to continue this mission. Since 2010, NPKUA has invested $3 million in research that has led to new knowledge, acceleration of new therapies, and supported pilot studies that have enabled larger federal funding opportunities. More information can be found on the NPKUA.org website under Scientific Grant Request. For more information email lex.cowsert@npkua.org.

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**POSTDOCTORAL OPPORTUNITIES**

**STANFORD SCHOOL OF MEDICINE**

POSTDOCTORAL FELLOW

The Lab of Dr. Idoyaga in the Microbiology and Immunology Department at Stanford University (http://idoyagalab.stanford.edu/) seeks a Postdoctoral Fellow whose position will focus on the role of dendritic cells and microbiota during skin cancer progression. The successful candidate will use, among other techniques, CyTOF and RNAseq. The applicant must have, or be nearing completion of, a Ph.D. or M.D./Ph.D., and be familiar with FACS, immune cell isolation and mouse handling. Please send Curriculum Vitae and a list of 3 references to e-mail: jidoyaga@stanford.edu. Stanford University is an Equal Opportunity Employer.

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A unique calling: Careers in career development for STEM doctorates

Some people find they are more geared to careers helping others in their field than pursuing the field itself. In that vein, some Science, Technology, Engineering, and Mathematics (STEM) Ph.D.s are inspired to pursue careers in counseling STEM postdocs about their careers—sometimes by STEM and other Ph.D.s who are career counselors themselves. By Alaina G. Levine

Caleb C. McKinney, assistant dean of graduate and postdoctoral training and development at Georgetown University Medical Center in Washington, D.C., laughs when he thinks about how he maneuvered his Ph.D. in virology into a career in career development. As a postdoc at the U.S. National Institutes of Health (NIH), he was a training students in his group on the practicalities of conducting research and found the experience to be personally transformative.

“I was writing a letter of recommendation for a student I had helped when I realized that I wanted to have these ‘realized’ moments on a bigger scale,” McKinney says. He approached the Office of Training and Diversity at the National Institute of Allergy and Infectious Diseases (NIAID) about assisting them with their efforts, and subsequently volunteer-coordinated activities that fostered the professional development of NIAID fellows. His career, and his bliss, were on their way.

Some scientists and engineers who have navigated the knotty question of “what should I do with my life?” choose to remain on “Rue de Research” and pursue traditional academic professions. Then there are a few, like McKinney, who respond by deciding they want to help other Ph.D.s find impactful careers. And that’s why we are seeing the emergence of the still fledgling field of career development for doctorates in STEM now buoyed by STEM doctorates themselves.

One career, many paths
Along these lines, there is now a growth in formal institutional administrative divisions such as postdoc affairs offices, which help STEM grad students and postdocs think about their career opportunities. There are also organizations with missions to advance the careers of those in the career development profession, such as the Graduate Career Consortium (GCC) and the National Postdoctoral Association (NPA). Additionally, “train-the-trainers” programs, such as those organized by NIH that support the knowledge growth of investigators and other mentors who are working with protégés, are making an impact in expanding this profession.

“It’s growing by leaps and bounds,” says Patrick Brandt, director of career development and training in the Office of Graduate Education at the University of North Carolina at Chapel Hill. “10 years ago, there weren’t many institutions hiring Ph.D.-trained professionals in this area.”

Natalie Lundsteen, assistant dean for career and professional development at the University of Texas Southwestern Medical Center in Dallas (UT Southwestern), says her career was launched when she noticed “a need for someone with career skills and a Ph.D. to work with grad students, cont.”

Upcoming features
Faculty: Alternative Funding Resources—September 14  ■  Top Employers Survey—October 26
which aligned with a big explosion in the world of career development in the late 2000s." Her dissertation research followed students pursuing internships at London banks, through which she discovered that the skills students need to succeed in a workplace are not necessarily linked to skills gained in academia. This finding inspired her to take on a career development role at the Massachusetts Institute of Technology, and she was subsequently recruited to UT Southwestern to build its career development division from scratch. Today, she assists biosciences Ph.D. students with their career strategies and is actively involved with GCC. Many of her advisees have gone on to careers in career development themselves.

To paraphrase an old Paul Simon tune, there are “50,000 ways” to leave your research and arrive at career development as a career. Immunologist Lia Paola Zambetti used communications to do so. She was a research fellow at the Singapore Immunology Network (Sign) of the Agency for Science, Technology and Research (A*STAR) in Singapore, but wanted “to get out of the academic grind and find a job that was not related to the bench.” She had already been engaged in science communications and had been freelancing as a popular science writer for several years. Through networking, she found a position in a new communications office at A*STAR. After three years there, she secured her current position at the University of Sydney, where she manages a fellowship program and organizes trainings in soft skills, such as public speaking, networking, and leadership for early-career researchers.

Tracy Costello’s path was crystalized as a postdoc in genetics and biostatistics at the University of Texas MD Anderson Cancer Center in Houston. While still a fellow, she volunteered with and later served on the board of directors of NPA. “It solidified for me that I had the ability to impact people beyond my particular circle, in that some of the things I was working on might not benefit me or my peers, but will benefit postdocs in the future,” she says. “It was very freeing when I realized this was the direction I wanted to go.”

After finishing her appointment, Costello did a brief foray in industry, but was quickly recruited back to MD Anderson to shape and launch its postdoc affairs office. An invitation to do the same at the Moffitt Cancer Center in Tampa, Florida, came four years later. Today, in addition to her job, she is serving as the chair of NPA.

What it takes

Each career development job is slightly different from the next, depending on many diverse factors including the institution’s culture, funding stream, and history of career advising. Some STEM career development specialists report to the dean of the graduate school or vice president for student affairs and serve on a team of career advisors. Alternatively, they could be organized under the vice provost for research or graduate education and enjoy the title of dean or assistant dean themselves. Other positions are more solitary, such as in postdoc affairs offices, which could consist of a single person—the director—who serves as both program manager and support staff.

“You will wear many hats,” explains Lundsteen, “including event planner, conflict resolver, manager, public relations manager, public speaker, salesperson, counselor, resource gatherer, and writer.” Other responsibilities could include strategic planning, stakeholder relations, communications, project and program management, logistics, negotiation, policy, and fundraising. Luckily, many of the skills required to be successful in the career development arena mirror those that Ph.D. scientists and engineers have acquired through their research training, such as proposal development and data collection.

Being comfortable with event planning is generally a must, as the career development professional will be organizing all kinds of trainings, workshops, networking mixers, and speaker series for their constituents—often several events at once. Brandt adds that having a “service mindset” will help with event-planning.

“You have to be OK with doing mundane tasks, such as reserving rooms and caterers and inviting keynote speakers and explaining to them what you want them to speak about,” he says.

Naturally, strong communication skills are critical. “It’s all about communicating backwards and forwards with the students, employers, alumni, and entities in the community,” says Lundsteen, who regularly stays apprised of industry trends for her charges by interfacing with the regional chamber of commerce and reading the Dallas Business Journal. “I am a clearinghouse for opportunities and information, and my job is to be objective and to present alternatives to students.”

Costello adds that the most important skills for success in this sector are being able to listen, to ask insightful questions, and to provide clients “a safe space to explore what they want to do.”

Making the transition

For many career development professionals, the seeds for their career advancement were planted in the institutions in which they conducted their Ph.D. or postdoc research. They sought out opportunities to volunteer, assisted in career counseling efforts, did informational interviews, and demonstrated to the community that this was their passion and aspiration.

“The number one way to position yourself for a role like this is to get involved, whether it is at your local university or at the national level,” urges Costello. “It’s critical that people have a microexperience of a career, whether it is an internship or volunteer experience. It’s a huge plus, because when you’re actually applying for the job, you can say you are already engaged in it.”

photo: Nicholas Gould
The University of Texas at San Antonio (UTSA) is seeking candidates to fill eight (8) faculty positions to foster collaborative research, education and outreach and to create interdisciplinary areas of knowledge that will advance the field of Artificial Intelligence (AI). All positions are either Tenure-Track Assistant, Associate or Full Professor level.

Faculty Cluster Hire in Artificial Intelligence

College of Architecture, Construction & Planning
Construction Science (1) — https://jobs.utsa.edu/postings/10151
Specializing in decision-making, decision support, unsupervised deep learning, current and future data for Internet of Things (IoT) and smart development of urban environments.

College of Business
Management Science & Statistics (1) — https://jobs.utsa.edu/postings/10148
Specializing in applied statistics and experience with AI, machine learning, and operational research within a multidisciplinary environment.

Information Systems and Cyber Security (2) — https://jobs.utsa.edu/postings/10100
Specializing in conducting research and developing tangible solutions to security challenges, particularly with gathering intelligence from unstructured data sets in real-time.

College of Engineering
Electrical and Computer Engineering (1) — https://jobs.utsa.edu/postings/10159
Specializing in AI, as it relates to smart health systems, electronic health records, digital health science, cloud computing, public health, or diagnostic radiology/computational imaging/image processing.

College of Liberal & Fine Arts
Psychology (1) — https://jobs.utsa.edu/postings/10099
Specializing in learning in complex data environments, resources-constrained AI processing, generalizable and predictable AI, deep learning, natural language processing, machine intelligence, super-intelligence, logics for intelligent interaction, logic for multi-agent systems in AI human factors, cyber psychology, privacy issues and healthcare applications.

College of Public Policy
Demography (1) — https://jobs.utsa.edu/postings/10101
Specializing in predictive modeling and data visualization for healthcare demand/burden, urban environments and planning, food environments and systems applications.

College of Sciences
Computer Science (1) — https://jobs.utsa.edu/postings/10158
Specializing in cyber adversarial learning, resource constrained AI, or AI as it relates to cloud computing, bioinformatics and other health-related applications.

Details/To apply: http://research.utsa.edu/ai

As an Equal Employment Opportunity and Affirmative Action employer, it is the policy of The University of Texas at San Antonio to promote and ensure equal employment opportunity for all individuals without regard to race, color, religion, sex, national origin, age, sexual orientation, gender identity, disability, or veteran status. The University is committed to the Affirmative Action Program in compliance with all government requirements to ensure nondiscrimination. The UTSA campus is accessible to persons with disabilities.
Seek out these opportunities early, says Lundsteen, by getting involved in your university’s grad student or postdoc association. It’s even better to join these organizations’ career committees so you get a greater “understanding the mechanics of the job,” she advises. And take heed—if your institution does not have one of these organizations or committees, why not be an innovator and start one yourself?

One important aspect of making the transition is to ensure proper communications with your mentor. Regarding principal investigators (PIs) who have already demonstrated that they are open to you pursuing nonbench careers, it would be prudent to start a discussion with them early on to safeguard that smooth transition. With mentors on the other end of the spectrum, who may be less than enthused if you suggest you want to do anything outside the ivory tower, you should be careful about when and how you broach the subject, and try to do so in a safe manner that doesn’t damage your relationship or endanger your employment arrangement.

McKinney took extra care to involve his PI in his plans early on. “I started developing project management platforms and working with my PI every week to make sure I was on target with my experimental deliverables, so I could get that extra time in the volunteer experience,” he says. “I kept her informed as a key stakeholder.”

But while you are engaging your PI and looking to do a side gig to gain experience, it’s important not to sacrifice your research. “Be good in the lab because you want to have high credibility. You have to be taken seriously,” warns Peter J. Peters, university professor and Limburg Chair at Maastricht University in The Netherlands.

While serving as the dean of postdoctoral affairs at the Netherlands Cancer Institute, Peters built the Postdoc Career Development Initiative (PCDI) to mentor and inspire young researchers at early stages of their scientific careers; it was later formally funded by the Dutch Ministry of Economic Affairs and became an independent organization. “People need to recognize you as someone who is good at science and a good citizen in the institution. Then, the director will give you money for your ideas,” he says. “If you are sloppy in your work as a postdoc, you won’t get momentum for your work at the institution.”

institutions. “It’s gratifying to see the number of positions increase and the growth in this area, although it is still difficult to get into it,” says Brandt. “You have to be willing to move where the jobs are.”

You also have to network. “It doesn’t matter if you are shy or introverted, nobody will do the work for you if you don’t take ownership of your path,” says Zambetti. “The only way out is networking—it’s painful and tough and excruciating at the start, but it does get easier with practice.”

Fortunately, most counselors are happy to help others who want to explore this profession. “Anyone in this profession would be willing to have someone shadow them or sit in on appointments,” says Lundsteen. “We are the best people to ask for an informational interview because what we do for a living is tell people to do informational interviews.”

The payoff for this path

One of the features of this career path that is especially gratifying for those with STEM degrees is that they get to remain a part of the scientific enterprise while they influence the next generation of scientists. Brandt loves the fact that he is still an active participant in higher education. He still publishes, although now it is in education research.

“I like the flow of the academic year, being on campus, and hearing the bell tower chime—I feel like I’m an academician,” he says. “I also love the science and still feel like I get to vicariously enjoy it.”

And then there is the definitive payoff. “I love my job every day because I get to help people figure things out. Hopefully they don’t feel the pain and struggle I felt at not knowing where to go if it’s not going to be faculty,” says Costello. “Most mentors don’t know how to guide you in any of the other career opportunities.”

Lundsteen agrees: “My life’s mission is showing people their capabilities and possibilities, and that brings me the greatest joy. I see I’m making a difference. I have the luxury of helping people and having them write me and say, ‘You played a part.’”

Alaina G. Levine is a science writer, science careers consultant, professional speaker, and author of Networking for Nerds (Wiley, 2015).
NEW POSTDOCTORAL FELLOWSHIP

The Warren Alpert Foundation announces the creation of the Warren Alpert Distinguished Scholars program that supports individual scientists of exceptional creativity who have an MD or PhD degree and who are post-doctoral fellows in the neurosciences in a medical school.

These awards are given as transitional awards before recipients become a member of a faculty at the Assistant Professor level or higher. Deans of medical schools are invited to submit one nomination.

Please see web page www.warrenalpertfoundation.org for details.

Applications are due on January 15, 2019.

Stony Brook University

Multiple Postdoctoral Positions
Fall/Winter 2018

Stony Brook University is recruiting for multiple postdoctoral positions in various sub-specialties, for the upcoming fall and winter months.

Stony Brook has been characterized by innovation, energy and progress, and making ground-breaking discoveries since its beginning half a century ago.

Any interested candidates are invited to visit our JOBS page. www.stonybrook.edu/postdocjobs

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Pfizer Worldwide Research and Development Postdoctoral Program

At Pfizer, postdocs are trained to become successful, independent investigators, capable of formulating and addressing important scientific hypotheses. In addition, trainees receive broad exposure to the process of drug discovery, from idea to clinical trials. Areas of scientific focus include cardiovascular and metabolic diseases, comparative medicine, drug safety, biotherapeutics/protein engineering, inflammation and immunology, medicinal chemistry, oncology, pharmacology, vaccines, and clinical, computational, and genomic sciences.

We recruit highly motivated Ph.D. recipients with an outstanding track record of scientific productivity and a passion for ground-breaking, fast-paced research that facilitates the development of innovative therapies for human diseases. Our program promotes dissemination of research results through publications and participation in scientific meetings, provides opportunities for collaboration with leading academic labs and industry consortia, and offers exceptional professional development training and networking opportunities.

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Lawrence Livermore National Laboratory
Our Next Breakthrough IS YOU

Lawrence Postdoctoral Fellowship
The Opportunity to Bring your Brightest Ideas to Life

We know that you are already working hard to solve important research questions. But do you want to take your skills to the next level and apply them to solving the nation’s most pressing problems in national security? The Lawrence Livermore National Laboratory (LLNL) has openings available in the Lawrence Fellowship Program that will allow you to do just that. We want you to apply for this prestigious fellowship, which offers you the freedom to conduct the independent, self-directed, cutting-edge research that you have always dreamed about. Fellowships are awarded to applicants with extraordinary talent, credentials, leadership potential and a track record of research accomplishments. Is that you?

Successful Fellows will propose and subsequently perform creative research in an area that is relevant to the mission and goals of LLNL. Broad topic areas include: Physics, Applied Mathematics, Computer Science, Chemistry, Material Science, Engineering, Environmental Science, Atmospheric Science, Geology, Energy, Lasers and Biology. You will be able to participate in experimental or theoretical work at LLNL and will have access to LLNL’s extensive computing facilities and specialized laboratory facilities. The duration of the Fellowship is up to three years. The salary is $9,476/mo.

Please refer to the following web page http://apptrkr.com/1255150 for eligibility requirements and instructions on how to apply. When applying and prompted, please mention where you saw this ad. The deadline for applications is October 1, 2018. LLNL is operated by the Lawrence Livermore National Security, LLC for the U.S. Department of Energy, National Nuclear Security Administration. We are an equal opportunity employer with a commitment to workforce diversity.

LLNL is an affirmative action / equal opportunity employer.

Duke University

regenerationNEXT

REGENERATION NEXT POSTDOCTORAL FELLOWSHIP PROGRAM, DUKE UNIVERSITY

Regeneration Next is a campus-wide initiative to stimulate high impact research that crosses disciplinary boundaries in regenerative biology and medicine. We announce a three-year postdoctoral fellowship program for research at Duke University, awarding a stipend averaging $55K/year, health insurance benefits, and $10K/year for research and travel expenses. Candidates who have recently completed or soon expect to complete their PhD or MD/PhD degrees at US or international institutions are encouraged to apply.

Accomplished candidates should identify a Regeneration Next-affiliated lab(s) of interest and contact the principal investigator to apply for a postdoc position. Faculty lead cutting edge programs in developmental and regenerative biology, stem cells, imaging, mechanobiology, gene editing, tissue engineering, and related areas. A full list is available at regenerationnext.duke.edu under “Faculty”.

Candidates will need to apply directly to the Faculty lab to obtain an interview. Applicant and Faculty sponsor will submit a brief application for a Regeneration Next fellowship. Details and application instructions can be found at regenerationnext.duke.edu under “Postdoc.” Awards are competitive and will be judged and awarded on a rolling basis until slots are filled. Applications will be accepted beginning October 1, 2018.

Questions may be directed to: Ken Poss, Director (regeneration@duke.edu).

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The Hollings Cancer Center seeks applications for the T32 Integrative Training in Oncogenic Signaling (ITOS) Postdoctoral Fellow Program. The goal of the Program is to train competitive postdoctoral trainees that will represent the next generation of cancer researchers. Selected fellows will be provided with an outstanding research and academic environment and professional opportunities including exposure to a wide variety of biological systems, approaches, and technologies in the study and translation of basic cellular processes involved in the development of cancer. ITOS Fellows will also have access to the most modern types of high-resolution imaging, advanced microscopy, genome-level profiling, proteomics, gene manipulation and cell tracking, as well as exposure to systems biology and bioinformatics. Fellows can be supported in the Program for two years.

Eligible candidates for support as Hollings Cancer Center T32 ITOS Program Fellows must meet the following requirements:

• Have a doctoral degree in a relevant discipline from an accredited domestic or foreign educational institution. 

• Be a US citizen or have verifiable status as a permanent resident.

The ITOS program will prioritize candidates seeking their first postdoctoral experience, although a second postdoctoral training experience may be considered if there is an outstanding candidate changing his or her focus to oncogenic signaling.

To apply, please visit this website: http://www.hollingscancercenter.org/research/membership-opportunities/t32/eligibility-app.html. For inquiries, please contact: Jill Ussery at ussery@musc.edu or (843) 792-4203

Michigan State University

Postdoctoral Research Associate Posting

Position Summary:

The Institute for Quantitative Health Science and Engineering at Michigan State University is recruiting motivated postdoctoral fellows to advance these fields and is inviting applications from outstanding candidates for up to 10 Postdoctoral positions in the areas of biomedical research including; biomedical devices, biomedical imaging, chemical biology, developmental and stem cell biology, neuroengineering, structural biology, synthetic biology, systems biology, motion analytics and precision health.

The Institute for Quantitative Health Science and Engineering is called IQ for its dedication to the development of intelligent solutions to the most pressing biomedical quandaries facing scientists and clinicians. To address these important problems, we have gathered some of the most creative minds from around the country to build integrative programs that bridge disciplines and integrate strategies for convergent tactical solutions.

For more information and to view faculty profiles, please visit our website at https://iq.msu.edu/

Required Degree(s):
PhD in engineering, biology and/or related field(s), MD/PhD, or equivalent degree(s)

Please visit http://careers.msu.edu to apply. (Reference posting #524444)
Why IEEE EMBS?
We are the world’s largest international society of engineers that work in the biomedical community. The organization’s 10,000 members reside in some 97 countries around the world. Whether you are an EE in Bio, a biomedical, mechanical or chemical engineer or a clinician interested in the latest technology … there is a place for you in our society.

EMBS provides its members with access to the people, practices, information, ideas and opinions that are shaping one of the fastest growing fields in science to make an impact in advancing technology for humanity.

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IEEE EMB houses an unrivaled network of professionals, experts, and advisors that can help shape your career, offer resources to acquire new skills, advance your professional development, and provide numerous opportunities for involvement, recognition, and reward.

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Postdoctoral Fellow for Genomics Sequencing, with a tentative starting date of October 1, 2018.

The Waksman Institute at Rutgers University invites applications for a Postdoctoral Fellow for Genomics Sequencing, with a tentative starting date of October 1, 2018. We are seeking individuals experienced in analyzing high throughput sequencing data on next generation genome sequencers. The analysis entails assessing the quality of the data, processing of the data through appropriate analysis pipelines, determining the quality of the analysis and whether further analysis should be done, and assembling results for researchers.

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 Environmental and Biological Sciences, 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 CIC. For more information, please visit our website: https://waksman.rutgers.edu.

Applicants must have a Ph.D. in Bioinformatics, Statistics genetics, Computer science and/or population genetics. Experience in genomics analysis, next generation sequencing, and pipeline/database development. Proficiency in Unix/Linux environment, and with at least one programming language (Python, R, Perl, Java, C/C++ etc.) The candidate must have excellent knowledge and experience with large scale biological data analyses especially high-throughput sequencing data. Candidates should submit a CV, cover letter, transcript and letters of reference to: https://jobs.rutgers.edu/postings/73390. For consideration, applications must be submitted electronically.

Rutgers is an Equal Opportunity/Affirmative Action Employer. For additional information please see the Non-Discrimination Statement at: http://uhr.rutgers.edu/non-discrimination-statement.
Jefferson Science Fellowship

The National Academies of Sciences, Engineering, and Medicine is pleased to announce a call for applications for the 2019 Jefferson Science Fellows (JSF) program. Initiated by the Secretary of State in 2003, this fellowship program engages the American academic science, technology, engineering and medical communities in the design and implementation of U.S. foreign policy and international development.

Jefferson Science Fellows spend one year on assignment at the U.S. Department of State or the U.S. Agency for International Development (USAID) as science advisors on foreign policy/international development issues. Assignments are tailored to the needs of the hosting office, while taking into account the Fellows’ interests and areas of expertise.

The fellowship is open to tenured, or similarly ranked, academic scientists, engineers, and physicians from U.S. institutions of higher learning. Applicants must hold U.S. citizenship and will be required to obtain a security clearance prior to beginning the fellowship.

The deadline for applications for the 2019-2020 program year is October 31, 2018. To learn more about the Jefferson Science Fellows program and to apply, visit www.nas.edu/jsf

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

NRC Research Associateship Programs

The National Academy of Sciences, Engineering, and Medicine offers postdoctoral and senior research awards on behalf more than 20 U.S. federal research agencies and affiliated institutions with facilities at over 100 locations throughout the U.S. and abroad.

We are actively seeking highly qualified candidates including recent doctoral recipients and senior researchers. Applications are accepted during four annual review cycles (with deadlines of November 1, February 1, May 1, and August 1).

Awardees have the opportunity to:
- conduct independent research in an area compatible with the interests of the sponsoring laboratory
- devote full-time effort to research and publication
- access the excellent and often unique facilities of the federal research enterprise
- collaborate with leading scientists and engineers at the sponsoring laboratories

Benefits of an NRC Research Associateship award include:
- 1 year award, renewable for up to 3 years
- Stipend ranging from $45,000 to $80,000, higher for senior researchers
- Health insurance, relocation benefits, and professional travel allowance

Applicants should hold, or anticipate receiving, an earned doctorate in science or engineering. Degrees from universities abroad should be equivalent in training and research experience to a degree from a U.S. institution. Some awards are open to foreign nationals as well as to U.S. citizens and permanent residents.

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

The University of Georgia

Multiple Postdoctoral positions available in Genetics at the University of Georgia in diverse areas of molecular and population genetics and genomics. http://www.genetics.uga.edu/
https://postdocs.uga.edu/

The Ye lab studies genetic adaptation to diet during human evolution and the genetic basis of complex metabolic diseases. Experience in population genomics or bioinformatics preferred. Contact: Kaixiong (Calvin) Ye, Kaixiong.Ye@uga.edu

The White lab studies mechanisms underlying the evolution of young sex chromosomes in the threespine stickleback fish. Contact: Dr. Mike White, whitem@uga.edu

The Goll lab studies the molecular bases of heterochromatin establishment during embryonic development. Experience with RNA-seq and ChIP preferred. Contact: Dr. Mary Goll, Mary.Goll@uga.edu

The Sweigart and Parrott labs are developing new transgenic approaches in the wildflower genus Mimulus (monkeyflower). Contact: Dr. Andrea Sweigart, sweigart@uga.edu

The Terns lab studies the basic biology and applications of CRISPR-based prokaryotic anti-viral immune systems. Contact: Dr. Mike Terns, mterns@uga.edu

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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 ARIeS 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.

Tenure-Track/Tenured Faculty Position

The Center for Oral Biology in the Eastman Institute for Oral Health invites applications for a faculty position at the early or mid-career level. Successful applicants should have a PhD, MD, DDS, or combined degrees, and demonstrated ability to conduct an innovative research program to investigate an area of science relevant to human disease/oral biology; including: tooth and craniofacial development; salivary gland biology; orofacial pain; or, oral bacteriology/immunology. Preference will be given to applications that complement ongoing programs or bring novel expertise and research perspectives. Individuals seeking an appointment must have demonstrated the ability to conduct independent research. The Center of Oral Biology is located in the state-of-the-art Arthur Kornberg Medical Research Building at the University of Rochester School of Medicine and Dentistry. Faculty members in the Center carry joint appointments in appropriate academic departments and participate in graduate student training in several graduate programs at the University of Rochester. More information about the Center and available positions can be found on the internet (http://www.urmc.rochester.edu/center-oral-biology/).

For further details and to apply online, please go to: http://www.rochester.edu/working/hr/jobs/(Job ID #203687). Please provide your curriculum vitae, statement of current and future research interests, and names and addresses of at least three references.

The University of Rochester is an Equal Opportunity Employer. Women and minorities are encouraged to apply.

Yale University
School of Medicine

FACULTY POSITION AT THE ASSISTANT PROFESSOR LEVEL

DEPARTMENT OF CELLULAR AND MOLECULAR PHYSIOLOGY

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

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

Excellent opportunities are available for collaborative research, as well as for graduate and medical student teaching. Candidates must hold a Ph.D., M.D., or equivalent degree. Applicants should include a curriculum vitae, a statement of research interests and goals, and should arrange to have three letters of reference sent. Applicants should apply at the following website: http://apply.interfolio.com/53471

Application Deadline: October 19, 2018

Yale University is an Affirmative Action/Equal Opportunity Employer and welcomes applications from women, persons with disabilities, covered veterans, and members of minority groups.