

Postdoctoral Associate
University of Texas, Dallas

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Posted Jun. 11, 2019, set to expire Oct. 11, 2019

Job Title	Postdoctoral Associate
Department	Mechanical Engineering
Institution	University of Texas, Dallas Richardson, Texas
Date Posted	Jun. 11, 2019
Application Deadline	Sep. 1, 2019
Position Start Date	Available immediately
Job Categories	Graduate Student Post-Doc
Academic Field(s)	Optics & Optical Engineering Mechanical Engineering Bioengineering (all Bio-related fields)
Apply By Email	zhenpeng.qin@utdallas.edu

Job Description

The Nano-Bioengineering Laboratory at University of Texas at Dallas (UT Dallas) is looking for highly motivated postdoctoral associates to join our dynamic and fast-growing lab. Our interdisciplinary research focus is on developing nanotechnology-based approaches to better understand the brain and revolutionizing point-of-care infectious disease diagnosis. Recent efforts have led to new enabling tools for optical manipulation and molecular release in the brain, and innovative diagnostic methods. Our work is externally funded by federal and state agencies (NSF, NIH, and CPRIT) and non-profit organizations (American Heart Association). Our lab closely works with active researchers UT Dallas, UT Southwestern Medical Center, Icahn School of Medicine at Mount Sinai, and Yale University.

We have several postdoctoral positions in the interdisciplinary area of nanotechnology and neuroscience. We seek applicants with a strong background in neuroscience, in vivo imaging, optical engineering or nanomaterials. A combination of these skills is useful but not required. Ideal candidates should be able to work in a collaborative environment, lead projects, learn new skills, communicate



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effectively, and accommodate some local or domestic travel for collaborative studies if necessary.

Current research opportunities include:

1. Collaborative project with Dr. Theodore Price at UT Dallas Center for Advanced Pain Studies involves innovative nanotechnology for optical control of proteins in live cells without genetic modification, and its application towards basic and applied science of chronic pain.
2. Collaborative project with Dr. Robert Bachoo at UT Southwestern Medical Center involves development of a new transformative technique to overcome the blood-brain barrier, and its broad applications in neuroscience as well in the understanding and treatment of brain tumors.
3. Collaborative project with Dr. Paul Slesinger at Icahn School of Medicine at Mount Sinai involves understanding neuropeptides neuromodulation in brain circuit and behavior by novel neuropeptide photorelease systems.
4. Collaborative project with Drs. Jiangbing Zhou and Kevin Sheth at Yale University and Dr. Heather Hayenga at UT Dallas involves improving stroke treatment by novel nanotechnologies.

Interested candidates should send a cover letter indicating your interest, CV, top 3 publications and references to in PDF format to Dr. Qin (Zhenpeng.Qin@utdallas.edu; Zhenpeng.Qin@UTSouthwestern.edu). Successful applicants will be offered with competitive salary and benefits. The anticipated start date is Summer to Fall 2019.

More information about our and collaborator laboratories can be found at:

- Qin lab: <http://me.utdallas.edu/people/qin.html>
- Price lab: <https://www.utdallas.edu/bbs/painneurosciencelab/>
- Bachoo lab: <https://profiles.utsouthwestern.edu/profile/80180/robert-bachoo.html>
- Slesinger lab: <http://labs.neuroscience.mssm.edu/project/slesinger-lab/>
- Zhou lab: <https://medicine.yale.edu/lab/zhou/>

About UT Dallas and UT Southwestern Medical Center:

UT Dallas is a major research institution that fosters interdisciplinary research. UT Southwestern Medical Center is one of the top medical centers in the US and the faculty includes six Nobel Prize winners. Both are located in the Dallas/Fort Worth (DFW) Metroplex, with around 7 million population, the fourth-largest metropolitan area in the United States. Dallas and its suburbs have one of the highest concentrations of corporate headquarters in the United States. DFW area attracts more than 100,000 new residents per year due to economic growth and job opportunities, and is served by an international airport connecting to all major cities in the US and around the world.

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EEO/AA Policy

The University of Texas at Dallas provides equality of opportunity in education and employment for all students and employees. Discrimination based upon race, color, religion, sex (including pregnancy), sexual orientation, gender identity, gender expression, age, national origin, disability, genetic information, or veteran status is strictly prohibited. This means that no person will be excluded from participation in, denied the benefits of, or be subject to discrimination under any program or activity sponsored or conducted by the University.

Contact Information

Please reference Academickeys in your cover letter when applying for or inquiring about this job announcement.

Contact Zhenpeng Qin
Mechanical Engineering
University of Texas, Dallas
Richardson, TX 75080-3021

Contact E-mail zhenpeng.qin@utdallas.edu