



Multiple Openings for Faculty Positions in:

- *Biomedical Imaging*
- *Biomedical Devices & Bio-nanotechnology*
- *Nano-Medicine*
- *Computational Bioengineering*
- *Tissue Engineering*
- *Cellular & Molecular Engineering*

The Department of Biomedical Engineering in the College of Engineering at Penn State seeks to hire 3-4 full-time biomedical engineering (BME) tenure-track or tenured faculty members for 2015-16 at the levels of assistant, associate, and/or full professor to continue developing an interdisciplinary cluster in biomedical engineering. This growth reflects the first stage in a multi-year expansion that includes a plan to:

- More than double the number of BME faculty by 2017
- Break ground on a new state-of-the-art facility in 2016-17
- Expand the intellectual footprint of the department to compete at the highest levels

These BME faculty positions will be in BME and largely include joint appointments in the College of Medicine, College of Science, the Huck Institute of Life Sciences, or the Institute for Cyber Sciences. Applications from researchers representing the wide array of biomedical engineering/bioengineering research areas are welcomed, and we are particularly interested in candidates with a documented track record in:

BIOMEDICAL IMAGING as applied to brain- and/or cardiovascular-related basic research or clinical applications, including those that leverage computational, statistical, and informatics approaches.

COMPUTATIONAL BIOENGINEERING in which mathematical, computational, informatics, statistical tools and/or multi-scale modeling are used to find solutions to fundamental questions in biology at the network, tissue, cellular and molecular levels.

TISSUE ENGINEERING/REGENERATIVE MEDICINE aimed at strategies that incorporate biomaterials, stem cells, and/or bio-manufacturing for the repair or regeneration of damaged or diseased tissues and organs.

BIOMEDICAL DEVICES AND BIO-NANOTECHNOLOGY in which innovative micro/nano techniques or sophisticated tools in chemistry, are used to develop platforms for biosensing, live-cell imaging, implantable devices for disease treatment and smart diagnosis, or integrated devices for point-of-care in vitro diagnosis.

NANO-MEDICINE aimed at advancing areas of drug delivery for diagnosis and treatment of cancer, cardiovascular disease, or diabetes.

CELLULAR AND MOLECULAR ENGINEERING that includes quantitative experiments, development of novel instrumentation and leveraging tools from synthetic biology with applications to cell biology, metabolic engineering, and drug production.

Candidates would be expected to secure (or for Associate and Full Professor ranks, have an outstanding track record of) extramural funding, be effective educators in the application of engineering to the medical and life sciences at the undergraduate and graduate levels, and participate in service to further the missions of the department, college, and university.

Penn State is an equal opportunity, affirmative action employer, and is committed to providing employment opportunities to minorities, women, veterans, disabled individuals, and other protected groups

THE MISSION

The core mission of Penn State's Department of Biomedical Engineering is to improve healthcare effectiveness and delivery by employing fundamental engineering principles to solve problems in life sciences and medicine at the basic science, clinical, and industry levels. We are looking for qualified individuals who can help bridge activities ongoing across colleges and institutes and who can make a significant impact on Penn State's research, educational, and translational activities. The department is committed to the highest quality education for undergraduates and graduate students in line with the college's mission of training world-class engineers and with the Penn State's land-grant mission of enhancing quality of life in the commonwealth and nation through technology and innovation.

TO APPLY

For more information, please visit www.bme.psu.edu. Applicants should have a doctoral degree in BME or related field(s). Women and members of underrepresented minorities are strongly encouraged to apply. Inquiries should be directed to Dr. Cheng Dong, Distinguished Professor and Department Head of Biomedical Engineering, via email (cxdbio@engr.psu.edu) or phone (814) 865-1407. Please submit current contact information, curriculum vitae, statement of research and teaching objectives, five representative research publications, and the names and contact information of 4-5 references in one pdf file. Apply to job **53548** at <http://www.psu.jobs>.

Nominations and applications will be considered until the positions are filled. Screening of applicants will begin on October 15, 2014 and interviews will take place in the spring of 2015. Salary is negotiable and commensurate with qualifications and experience. Employment will require successful completion of background check(s) in accordance with University policies.

Employment will require successful completion of background check(s) in accordance with University policies.

CAMPUS SECURITY CRIME STATISTICS: For more about safety at Penn State, and to review the Annual Security Report which contains information about crime statistics and other safety and security matters, please go to <http://www.police.psu.edu/clery/>, which will also provide you with detail on how to request a hard copy of the Annual Security Report.

Penn State is an equal opportunity, affirmative action employer, and is committed to providing employment opportunities to minorities, women, veterans, disabled individuals, and other protected groups