The Department of Biomedical Engineering at the University of Southern California (USC) is engaged in a major expansion of its research and educational programs. The expansion is in areas at the interface of Systems Biology and Cellular-molecular Bioengineering (a field we call Systems Cellular-molecular Bioengineering). We seek outstanding faculty candidates for positions as tenure-track assistant professor, tenured associate professor, or tenured professor that will expand our department into a leader in these areas. Successful candidates at any academic rank are expected to have uncommon potential or distinguished records and research funding in areas of interest, which include: Genetic Regulatory Networks; Morphodynamics and Morphogenesis; Combined Cellular-Molecular Experimental and Modeling Approaches to Translational Research and Medical Therapeutics; Metabolomics; Computational Systems Biology; Biocomplexity Analysis, and Engineering Aspects of Stem-cell and Regenerative-medicine Research. Successful applicants will develop transformative collaborations in these areas of research with USC faculty in engineering, medicine, and the life sciences. Successful candidates will build on current areas of excellence in the Department, the Viterbi School of Engineering (VSoE), and USC.

The Department currently includes fifteen primary and over sixty affiliated faculty members. It has research excellence in neuroengineering, bio-signals/systems, and device/diagnostic technologies, including bioimaging. The Department plays an active role in contributing to seven national centers of funded research: the Biomimetic Microelectronic Systems Engineering Research Center (NSF), the Biomedical Simulations Resource (NIH), the Medical Ultrasonic Transducer Technology Research Center (NIH), the Center for Neural Engineering (NSF, DARPA), the Center for Vision Science and Technology (NIH), the Center for Genomic and Phenomic Studies in Autism (NIH), and the Rehabilitation Engineering Research Center (NSF). Moreover, the Department has a Wallace H. Coulter Foundation Translational Research Partners Program. Other relevant centers and institutes at USC include the Center for Applied Molecular Medicine, the Broad Center for Regenerative Medicine and Stem Cell Research, and the Southern California Clinical and Translational Science Institute. Successful candidates will be expected to work with one or more of these centers, institutes, and programs. Furthermore, the candidates will have the opportunity to work with the technology development professionals of the Alfred E. Mann Institute for Biomedical Engineering at USC. This Institute promotes translation of fundamental research discoveries into commercially viable biotechnologies to improve human health and well-being.

The VSoE is one of the best schools of engineering in the country. More than a third of its faculty members are fellows in their respective professional societies. With 37 faculty members elected to the National Academy of Engineering, and 57 winners of Presidential Young Investigator and CAREER awards, 10 winners of PECASE Early Career awards, the VSOE ranks among the very best in the nation in these important metrics of present and future strength of a school of engineering. In addition, the VSOE has an excellent nurturing environment for its young faculty. An illustration of this environment is that six of the VSOE faculty members have been on the TR35 list. This list by the Technology Review of MIT honors annually 35 technology and science innovators around the world under the age of 35 who are tackling important problems in transformative ways.

We encourage applications from transformative and interdisciplinary scholars. Transformative scholars are distinguished individuals whose accomplishments are transforming the field.
Interdisciplinary scholars are outstanding individuals engaged in research aligned with the interests of the Department, but whose research also cuts across other departments in the VSoE and university.

To receive full consideration, candidates should apply on-line at Viterbi’s faculty application website: http://viterbi.usc.edu/facultyapplications/. Application materials include a cover letter, curriculum vitae, statement of research and teaching interests, and contact information for suggested references. Applications should be submitted by February 3, 2012. Interested individuals are welcome to contact Dr. Grzywacz, Chair, Department of Biomedical Engineering, to discuss these transformative positions before submitting materials. They are also encouraged to visit the website of the Department (bme.usc.edu) for details on current educational and research programs.

The University of Southern California values diversity and is committed to equal opportunity in employment. Women and men, and members of all racial and ethnic groups, are encouraged to apply.