

Postdoctoral Research Associate

EMD Millipore Research Associate in Automated Systems Biology

Vanderbilt Institute for Integrative Biosystems Research and Education, Vanderbilt University

With the support of EMD Millipore Bioscience, the Vanderbilt Institute for Integrative Biosystems Research and Education (VIIBRE) is seeking candidates for a research associate in either of the Departments of Physics & Astronomy, Biomedical Engineering, or Molecular Physiology & Biophysics. The successful candidate will be expected to conduct both experimental and computational research as a part of a long-term project in the automated inference of mathematical models of metabolic and signaling dynamics of small populations of cells. Techniques being used include microfabricated bioreactors with optical, electrochemical, and mass spectrometric sensing, closed-loop control, microfluidics, numerical modeling, and bioinformatics. A doctoral degree in a related field is required. Apply at <https://academicjobsonline.org/ajo/jobs/724>. Review of applications will begin on 1 July, 2011 and will continue until the position is filled.

VIIBRE is a transinstitutional initiative created in 2001 to foster and enhance interdisciplinary research in the biophysical sciences, bioengineering, and medicine at Vanderbilt University, integrated with a strong focus on undergraduate, graduate, and postdoctoral education. VIIBRE's primary focus is the use of microfluidics and advanced analytical systems to instrument and control single cells and small populations of cells. Founded in 1873, Vanderbilt is a private, coeducational university with approximately 6,000 undergraduates and 5,000 graduate and professional students. Vanderbilt University is an equal-opportunity, affirmative-action employer. Women and minority candidates are particularly encouraged to apply. For more information, please visit our web site <http://www.vanderbilt.edu/viibre> or contact Prof. John P. Wikswow (please email both john.wikswow@vanderbilt.edu and cheryl.cosby@vanderbilt.edu).