The Department of Veterinary and Biomedical Sciences of the College of Agricultural Sciences and the Huck Institutes of the Life Sciences of Pennsylvania State University seek enthusiastic, creative, and team-oriented applicants for a tenure-track or tenured professorship focused on computational metabolomics. Rapid technological advancements have led to an urgent need for development and implementation of rigorous computational approaches to interpret metabolomics data, to build and refine predictive models, and to merge metabolomics data with data streams from other “omics” disciplines, such as genomics, transcriptomics, and proteomics. The successful applicant is expected to: develop a strong, independent program that contains both experimental wet lab activity and computational metabolomics; undertake structural elucidations based on fragmentation patterns and develop new tools to refine and accelerate that activity; develop databases for metabolite identification and curation of metabolomics projects; develop algorithms for analysis and interpretation of metabolomics data along with associated Galaxy workflows; secure extramural support for an independent research program from the NIH, NSF, or private foundations. Must have a Ph.D. in bioinformatics, life sciences, or a related field, have extensive experience in either chemometrics or metabolomics, and be well versed in analysis of high-throughput and high-dimensional data. Exceptionally creative and motivated individuals who are skilled in computational approaches for complex data but do not possess extensive metabolomics experience are also encouraged to apply. The position includes a 75% research, 25% teaching assignment. The successful applicant will train graduate students and post-doctoral fellows and will work in a cross-disciplinary team environment to provide novel discoveries relevant to current and future issues related to health and disease. This work may include studies of independent effects of, as well as interactions among, toxicants, pharmaceuticals, chemoprotective substances, macronutrients, and/or other compounds and elements, potentially in concert with the normal microbial flora of body tissues as well as pathogens. As part of the leadership team of the Penn State Metabolomics Initiative, the successful applicant will perform independent research and also offer guidance and assistance for other investigators who are less familiar with metabolomics. He or she will actively participate in development of a high-profile, interdisciplinary metabolomics research program, with emphasis on both computational bioinformatics and statistical analyses to help elevate and expand Penn State’s biomedical research programs. Teaching obligations will be limited for the first year to allow sufficient time to establish a research program and submit grant proposals. After this initial period, teaching responsibilities will include development and/or instruction of an undergraduate course in metabolomics and at least one graduate level course in metabolomics and bioinformatics in the context of xenobiotic exposures. The successful applicant will be expected to become an effective member of Penn State’s Center for Molecular Toxicology and Carcinogenesis (http://www.cmtc.psu.edu), the Huck Institutes of the Life Sciences (http://www.huck.psu.edu), and possibly the Pennsylvania Institute for Energy and the Environment (http://www.psiee.psu.edu). Additional involvement may include engagement in appropriate interdisciplinary research and mentoring activities within and outside the Department, potentially including faculty members and students of the Center for Molecular Immunology and Infectious Diseases (http://www.huck.psu.edu/people/specialties/an-institute-or-center/cmiid) and the Center for Infectious Disease Dynamics (http://www.cidd.psu.edu). This position features outstanding research space and a
competitive start-up package.

Penn State has an impressive record of grantsmanship, discoveries, publications, and mentored researchers. Penn State is a Land Grant University located within the beautiful Appalachian mountains of central Pennsylvania. State College and the surrounding communities are home to approximately 100,000 people, including over 45,000 students. The area is popular for its mountains, parks, streams, and superb sports and recreational opportunities. State College has an excellent school system and offers many cultural events. To apply, please visit https://app2.ohr.psu.edu/Jobs/External/EVMS2_External/currentap1.cfm#55363 and submit a letter of application documenting qualifications for the position: a current curriculum vitae; and the contact information for at least three (3) professional references. Inquiries may be directed to Gary Perdew, PhD (ghp2@psu.edu), chairperson of the search committee. Reviews of applications will start in February 2015 and continue until the position has been filled.

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.