Tenure-Track Faculty Position in Computational or Systems Toxicology
School of Health Sciences, Purdue University

Job Summary
The School of Health Sciences in the College of Health and Human Sciences invites applications for a tenure-track position at Assistant Professor level in computational toxicology or systems toxicology. The successful candidate will lead an independent research program that utilizes state-of-the-art computational and systems approaches to advance understanding of how environmental exposures adversely affect human health. Within the School of Health Sciences, ongoing studies on the adverse outcomes of environmentally relevant exposures offer tremendous collaborative opportunities for a computational or systems toxicologist. Outside the School, there are collaborative opportunities with Purdue’s world-renowned colleges, including Engineering, Management, Science, Health and Human Sciences, Pharmacy, and Agriculture. Purdue has also established Discovery Park, a highly interdisciplinary enterprise dedicated to transformative research that includes state-of-the-art centers for nanotechnology, biosciences, healthcare engineering, energy, and other multi-disciplinary activities. Opportunities for collaboration also exist with a large number of manufacturing, information, healthcare, and energy industries in the region.

The successful candidate is expected to lead an extramurally funded research program involving the elucidation of risks associated with chemical exposures to human health outcomes through use of computational approaches including machine learning and artificial intelligence (AI) on high-throughput, high-content, exposure-risk assessment, and/or clinical data. The successful candidate is also expected to contribute to the School's educational missions in our Health Sciences Pre-Professional program aimed at preparing students for professional careers in the biomedical health sciences, as well as our Occupational and Environmental Health Sciences and Toxicology programs. The candidate will develop new courses in our curriculum focused on the use of “big data,” AI, machine learning, and other computational approaches to human health and disease (e.g. toxicogenomics, systems biology, molecular structure-function modeling, clinical bioinformatics, translational modeling).

The School and College
The School of Health Sciences has internationally recognized research and educational programs in Health Physics, Imaging Sciences, Occupational and Environmental Health Sciences, Medical Physics, and Toxicology. The School is an integral part of the College of Health and Human Sciences, which aims to bring together scholars in the human sciences and health sciences to strategically address issues vital to enhancing quality of life. The College recently received accreditation of an MPH program in Public Health, along with the creation of the new Department of Public Health

Qualifications
Candidates must have a Ph.D. in toxicology, computational or systems biology, or a related field and productive postdoctoral research experience. We seek a candidate who would utilize either a hybrid wet/dry lab approach in which in silico predictions are tested by in vitro or in vivo approaches, or a candidate using especially innovative dry-lab only computational approaches. The position is competitive with regards to salary, start-up funds, and laboratory space.

Applications
A cover letter, curriculum vitae, a statement of current and future research interests (maximum 3 pages), and a teaching philosophy statement (maximum 1 page) and contact information for three references should be submitted as a single PDF through Success Factors:

https://career8.successfactors.com/sfcareer/jobreqcareer?jobId=7163&company=purdueuniv&username=

Purdue University's School of Health Sciences is committed to advancing diversity in all areas of faculty effort, including discovery, instruction, and engagement. Candidates should address at least one of these areas in their cover letter, indicating their past experiences, current interests or activities, and/or future goals to promote a climate that values diversity and inclusion. Review of applications will begin on October 14th, 2019 and continue until the position is filled. For more information, contact Dr. Jason Cannon (cannonjr@purdue.edu)
A background check is required for employment in this position.

Community
Greater Lafayette Indiana is home to Purdue University and is one of the fastest growing communities in the Midwest. Subaru of Indiana Automotive, Caterpillar, Dow AgroSciences, Rolls-Royce, GE Aviation, Schweitzer Engineering Laboratories, Wabash National, Saab Global Defense and Security Company, high tech firms and small businesses all call Greater Lafayette their home. Conveniently located between Chicago and Indianapolis, Greater Lafayette is also near several other major metropolitan cities. Visit Lafayette-West Lafayette and Greater Lafayette Commerce are resources that highlight our great community.

Equal opportunity
Purdue is an EEO/AA employer. All individuals, including minorities, women, individuals with disabilities, and protected veterans are encouraged to apply. Fully committed to achieving a diverse workforce.