

Research Fellow

Merck & Co. Inc., established in 1891, is a global research-driven pharmaceutical company dedicated to putting patients first.

Join us and experience our culture first-hand - one of strong ethics & integrity, diversified experiences and a resounding passion for improving human health. As part of our global team, you'll have the opportunity to collaborate with talented and dedicated colleagues while developing and expanding your career.

Molecular Profiling Data Analysis group is looking for a motivated and qualified scientist to apply computational biology and statistical learning methods to support drug development in the area of Infectious Diseases and Vaccines as well as projects related to protein biosynthesis in living systems. Successful candidate will be located in West Point, PA and collaborate closely with scientists across Merck Research Laboratories to leverage gene expression and other information in drug discovery and development programs. This research scientist will be responsible for mathematical modeling and analysis of microarray gene expression and other molecular data from various biological model systems and large cohorts of clinical samples. Additionally, the individual will explore and evaluate new analysis methods for uncovering biologically and clinically relevant pathway information from multidimensional molecular data.

Responsibilities:

MPDAs support Franchise and Function Molecular Profiling efforts through the application of Computational Biology and Bioinformatics expertise to:

- 1) Draft and review data analysis plans in Molecular Profiling documents
- 2) Provide data analysis support to Merck Molecular Profiling programs
- 3) Interact with key stakeholders in Molecular Profiling and therapeutic area scientists to understand analysis needs and implement solutions
- 4) Develop statistical/biological interpretations to the molecular profiling signatures
- 5) Build predictive models for patient outcome and drug response; mine the internal and external data for biomarker discovery
- 6) Explore and evaluate new analysis methods for uncovering biological mechanisms from high dimensional data

Requirements:

Successful applicants should have a Ph.D. in biophysics, computational biology, or biostatistics; solid training in mathematics, statistical learning or systems biology; proficiency in Matlab, R, or SAS; 3 years experience in microarray or other multivariate data mining; significant track record of scientific publications in computational biology or related areas. Knowledge of infectious disease, immunology or yeast biology would be desirable.

Consistently cited as a great place to work, we discover, develop, manufacture and market a wide range of vaccines and medicines to address unmet medical needs. Each of our employees is joined by an extraordinary sense of purpose - bringing Merck's finest achievements to people around the world.

We offer an excellent salary and an industry-ranked benefits program, including tuition reimbursement, work-life balance initiatives and developmental programs at all levels. Merck's retirement package includes a pension plan and one of the best 401(k) plans in the nation.

To be considered for this position, please visit our career site at www.merck.com/careers to create a profile and submit your resume for requisition # BIO0002389. Merck is an equal opportunity employer, M/F/D/V - proudly embracing diversity in all of its manifestations.

Our work is someone's hope. Join us.

Where patients come first - Merck

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