OMICS Research Associate PVL

Salary minimum: $42,000 Annual Depending on qualifications

Anticipated Begin Date: Immediate

Qualifications:
A PhD, MD or DVM with relevant research background is required. Desired specializations include bioinformatics, computational biology or other related fields.

The ideal candidate is a creative, productive and self-motivated individual with the ability to think critically, learn quickly and function both independently and within a team. Strong basic laboratory skills and good technique are pluses, and excellent communication skills (verbal and written) are essential. To be considered, candidates must be eligible for Select Agent clearance and be willing to attain certification to work in biosafety level 3 (BSL3) containment facilities after being hired.

Minimum number of years and type of relevant work experience:
0-5 years of post-doctoral training is required. Candidates should have verifiable experience working with high through-put datasets, which may include RNAi screens or various types of ‘omics analyses (e.g., transcriptomics, proteomics, and/or metabolomics/lipidomics). Wet lab (i.e., bench) experience is desirable but not required; however, a strong desire to learn and apply wet lab techniques, including cell culture and in vivo models of infection, is essential.

Principal duties:
The Kawaoka Laboratory – located at the state-of-the-art Influenza Research Institute at the University of Wisconsin-Madison – studies negative-sense RNA viruses including highly pathogenic avian influenza viruses and Ebola virus. One of our main objectives is to determine how these viruses cause lethal infections in humans. To do this, we are using a systems biology approach that encompasses measuring different parameters of infection (including virus-specific and host-specific properties), using computational methods to model these data and make predictions about critical determinants of pathogenicity/lethality, and validating predictions using cell culture and in vivo model systems. Ultimately, this work aims to clarify mechanisms of viral pathogenicity and obtain information that can be used to develop improved treatment strategies.

Currently, we have an opportunity for a post-doctoral researcher interested in joining a multi-disciplinary, multi-institutional collaborative team comprising scientists with expertise in virology, high through-put analysis methods, and computational modeling of biological systems. The individual hired for this position will assist in highly structured experiments to collect cell culture and mouse tissue samples for high through-put analysis, examine and compare high through-put datasets and computational models to develop hypotheses and prioritize targets for follow-up studies, and perform follow-up validation experiments in cell culture and mouse models. Other duties will include participation in meetings with collaborators, preparation of data reports, data presentations, and manuscript preparation.

To apply, please email a CV, a letter of interest, up to three reprints, and the names of three references to Ms. Vickie Groth (vgroth@svm.vetmed.wisc.edu).

Women and members of under-represented groups are encouraged to apply.

Deadline: August 15, 2013