

Academic - Postdoctoral Scholar

Interviewer: Nick Riley, Stanford University and incoming assistant professor at the University of Washington in 2023

We are looking to hire a postdoc to bring new expertise to the group! We are a glycobiology group with expertise in chemical and molecular biology to study how cell surface epitopes govern cancer metastasis, but we need a new team member to expand our proteomics and mass spectrometry expertise. We are particularly interested in candidates with a background in any combination of 1) quantitative bottom-up proteomics, 2) glycoproteomics, or 3) structural proteomics. See our full description for more information!

Job Description Required Qualifications:

- Qualified candidates must have a PhD in Chemistry, Biochemistry, or another Biological/Life Sciences from an accredited institution
- excellent verbal and written English skills
- experience with proteomic methods
- All applicants should also have basic bench skills (as listed in lab duties).

Preferred Qualifications:

Preferred applicant should be both innovative and highly motivated with broader sense of understanding cancer and glycobiology, analytical chemistry, and computational analysis. Candidates with 1st author publications and experience in quantitative proteomics, glycoproteomics, and structural proteomics will be given preference. The candidate should be able to independently take lead on research projects.

Job Duties Research Overview: Conduct research in the building of integrated data sets to model how carbohydrates affect immune recognition of tumors. The main focus of the laboratory is to understand the cell surface epitopes that strongly impact tumor metastasis. Position is adaptable to a wide range of skills and will use bench experiments, cell culture, proteomics, and computational biology.

Expectations:

The postdoc will be expected to complete research projects under the guidance of the faculty mentor, record and interpret the results of their experiments in a laboratory notebook, prepare publication-quality manuscripts (including figures and tables) and publish in peer-reviewed literature.

The applicant will also read literature articles, develop new ideas, and assimilate the information into his/her project design/interpretation.

Lab skills:

- Perform experiments utilizing LC-MS/MS-based proteomics. Our expectation is that you can build our skillset in proteomic technology and we will teach you all you need to know about molecular methods including cloning, affinity purifications of protein complexes, enzymatic assays, and live cell imaging.

- These skills will be coupled to state of the art and innovative mass spectrometry-based (glyco)proteomic methods that the postdoc will lead, including data analysis and interpretation.

Dissemination of studies:

Interact on a regular basis with their faculty mentor and members of the laboratory to discuss experimental design and interpretation of results. Present research aims and findings at department seminars and at scientific meetings. Write and publish their results as first author in abstracts, manuscripts, and posters.

Compliance:

Attend and maintain compliance on all orientation and training sessions designated by the University, understand and follow IACUC and biosafety protocols, and attend departmental seminars and regular lab meetings.

Funding:

This position is funded by an R01 grant, but the scholar would be highly encouraged and supported to submit fellowship applications, as eligible, to bolster research funding and CV building for her/his project.