

Postdoctoral Research Position – Virology

Location: Atlantic Veterinary College, University of Prince Edward Island

Position Type: Full-time, Postdoctoral Research Fellow

Duration: 1 year (extension possible based on performance)

Start Date: As soon as possible

Position Summary

We are seeking a motivated Postdoctoral Researcher to join our team studying the molecular mechanisms of avian reovirus (ARV) replication and host interaction. The successful candidate will investigate the molecular determinants of viral replication and pathogenesis, focusing on protein-protein interactions between viral and host factors, and contribute to the design and evaluation of recombinant vaccine candidates.

Responsibilities

- Investigate viral protein–host protein interactions using molecular and biochemical approaches.
- Utilize bioinformatics tools for viral genome analysis, protein characterization, and host–virus interaction mapping.
- Assess the structural and functional roles of viral genes and protein domains.
- Design, generate, and characterize recombinant ARV-based vaccine candidates.
- Prepare manuscripts, present research findings at conferences, and contribute to collaborative grant efforts.

Qualifications

- Ph.D. in Virology, Molecular Biology, Microbiology, Biochemistry, or a related field.
- Hands-on experience with molecular cloning, recombinant DNA/RNA techniques, and cell culture.
- Familiarity with protein–protein interaction assays (e.g., co-immunoprecipitation, pull-down, mass spectrometry).
- Working knowledge of bioinformatics tools for sequence and interaction analyses.
- Excellent communication and teamwork skills.

Application instructions

Please send the following documents to layalew@upei.ca

1. Curriculum vitae
2. Names and contact information of three references

