

SENIOR RESEARCH SCIENTIST - VIRAL IMMUNOLOGY

Pacific Bioscience Innovation Center (PBIC)

Seattle, Washington

Application Deadline: June 15, 2025

ABOUT US

The Northwest Institute for Infectious Disease Research (PBIC) is at the forefront of understanding host-pathogen interactions and developing novel therapeutic approaches for infectious diseases. Our interdisciplinary team combines expertise in molecular biology, immunology, and computational biology to address the most pressing challenges in infectious disease research.

POSITION OVERVIEW

We are seeking a talented and motivated Senior Research Scientist to join our Viral Immunology team. The successful candidate will lead research projects focused on understanding immune responses to emerging viral pathogens using advanced zebrafish and rodent models. This position offers an exceptional opportunity to conduct cutting-edge research in a collaborative environment with access to state-of-the-art facilities.

KEY RESPONSIBILITIES

- Design and execute experiments to investigate host immune responses to viral infections
- Develop and characterize novel transgenic zebrafish lines for studying viral pathogenesis
- Implement advanced imaging techniques to visualize host-pathogen interactions in vivo
- Analyze complex datasets using computational approaches and statistical methods
- Mentor junior researchers and contribute to grant writing and publication efforts
- Present research findings at institutional meetings and scientific conferences
- Collaborate with internal teams and external partners to advance research objectives
- Contribute to the development of therapeutic strategies against viral pathogens

REQUIRED QUALIFICATIONS

- PhD in Immunology, Virology, Molecular Biology, or related field
- Minimum 5 years of post-doctoral research experience in viral immunology
- Demonstrated expertise in zebrafish or rodent models of infectious diseases
- Strong publication record in peer-reviewed journals
- Proficiency in molecular biology techniques, including PCR, cloning, and gene expression analysis
- Experience with fluorescence microscopy and immunohistochemistry
- Ability to analyze and interpret complex biological datasets
- Excellent written and verbal communication skills

PREFERRED QUALIFICATIONS

- Experience with CRISPR/Cas9 gene editing in animal models
- Knowledge of single-cell RNA sequencing and bioinformatics analysis
- Background in interferon signaling pathways or cytokine

biology • Experience with high-throughput screening approaches • Grant writing experience and history of successful funding • Programming skills in Python, R, or similar languages

WHAT WE OFFER

• Competitive salary commensurate with experience (\$95,000-\$120,000) • Comprehensive benefits package including health, dental, and vision insurance • Retirement plan with employer matching • Relocation assistance package • Professional development opportunities and conference travel support • State-of-the-art research facilities and equipment • Collaborative and stimulating research environment • Work-life balance with flexible scheduling options

HOW TO APPLY

Interested candidates should submit the following materials through our online application portal at www.pbic.org/careers:

1. Cover letter highlighting relevant experience and research interests
2. Curriculum vitae including publication list
3. Research statement (2 pages maximum)
4. Contact information for three professional references

NIIDR is an equal opportunity employer committed to building a diverse and inclusive workforce. We encourage applications from candidates of all backgrounds, particularly those underrepresented in science.

For inquiries, please contact: recruitment@pbic.org

Join us in our mission to advance understanding of host-pathogen interactions and develop innovative approaches to combat infectious diseases.

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