



Senior Research Tech

Pacific Northwest Research Institute (PNRI) is seeking a Senior Research Technician for the Carvalho lab who will focus on investigating the molecular basis of rare human genetic diseases. We are seeking a candidate who can work as part of a multidisciplinary team of scientists and researchers.

POSITION SUMMARY

You will be part of a collaborative project aimed at genotyping, and molecular characterizing the genome of patients and family members with Mendelian diseases, carry out scientific techniques, procedures and research related to detection and confirmation of genomic variants of interest in DNA samples as well as functional studies if applicable. Order equipment and resources; perform quality control, systems monitoring, and data management. May train and oversee lab employees.

Assist and advise in establishing laboratory procedures, and scheduling.

Experience with the following techniques is needed: basic molecular biology (e.g. PCR, DNA and RNA extraction, protein assays, gel electrophoresis, Sanger sequencing). Priority will be given to candidates who have experience with human tissue culture growth and maintenance including lymphoblastoid cell lines, skin fibroblasts, induced pluripotent stem cells (iPS cells). The Senior Research Technician will conduct all activities relating to process development, understanding cell culture media formulations and providing technical support. Basic computational skills to design PCR primers and some basic analysis of molecular data is desired.

ESSENTIAL DUTIES AND RESPONSIBILITIES:

- Maintain adequate level of lab supplies to assure timely achievement of lab activities
- Adjust, calibrate, maintain and troubleshoot laboratory equipment
- Perform periodical/literature searches in preparation for study design
- Contribute to implementation of methodologies, instrumentation and procedures and/or design experiments
- Test and troubleshoot methodologies, instrumentation, procedures and supplies
- Monitor experiments, make observations and assess results
- Participate in analysis and interpretation of test or study data.

- Prepare technical reports, summaries and quantitative analyses
- Serve on internal committees
- Train students and other laboratory personnel in the use of laboratory equipment
- Enforce proper collection and disposal of hazardous laboratory waste

Supervisory Responsibilities:

- May train and oversee lab employees and students

Qualifications:

To perform this job successfully, an individual must be able to perform each essential duty satisfactorily. The requirements listed below are representative of the knowledge, skill, and/or ability required. Reasonable accommodations may be made to enable individuals with disabilities to perform the essential functions.

Education and Experience

- Bachelor's degree in the biological sciences or equivalent experience and/or education
- Five or more years of experience as a Research Technician or related laboratory experience

Skills and Abilities

- Specialized knowledge and effective use of the principles, practices, procedures and techniques of the assigned subject area such as knowledge of the use and preparation of culture media, chemicals and reagents
- Experience with human tissue culture growth and maintenance including lymphoblastoid cell lines, skin fibroblasts, induced pluripotent stem cells (iPS cells)
- Experience in short and long-read, next-generation sequencing is desirable but not required
- Research skills including the ability to read, analyze and interpret common scientific and technical journals.
- High level of attention to detail.
- Ability to consider the relative costs and benefits of potential actions and make recommendations.
- Ability to resolve complex problems, evaluate options and implement solutions.
- Ability to write reports, business correspondence and procedure manuals.
- Knowledge of laboratory safety policies and procedures including chemical and radiation safety.

PHYSICAL REQUIREMENTS

The work environment characteristics described here are representative of those

an employee encounters while performing the essential functions of this job. Reasonable accommodations may be made to enable individuals with disabilities to perform the essential functions.

Physical Abilities

The employee is required to sit, stand, walk, and reach with hands and arms and grasp with hands and fingers. The employee may make precisely coordinated movements of the fingers of one or both hands to grasp or manipulate small objects. The employee must lift and/or move up to 25 pounds. Position may require working with microscopes and computers for extended periods of time. Specific vision abilities required by this job include close vision and ability to adjust focus.

Work Environment

The noise level in the work environment is usually moderate consisting of usual business office sounds including but not limited to computers, printers, telephones, and light foot traffic. Employees who work in Laboratories may be exposed to biological, chemical, radiological, or physical hazards that are typical of a laboratory environment. Employees may be required to work with and handle animals.

About PNRI:

The Pacific Northwest Research Institute (PNRI) is an independent, nonprofit, biomedical research institute based in Seattle with a distinguished history of contributing numerous scientific advances to improve human health. Their scientists and staff believe genetic research holds the greatest untapped potential to improve human life and health. Their award-winning scientists use innovative applications of genetics, genomics, mathematical methods, and evolutionary biology, while working together across seven labs and multiple disciplines. They approach complex scientific challenges collaboratively, driving toward real-world solutions to advance human health.

PNRI is committed to creating a diverse environment and all qualified candidates are encouraged to apply. Applicants will not be discriminated against because of race, color, creed, sex, sexual orientation, gender identity or expression, age, religion, national origin, citizenship status, disability, ancestry, marital status, veteran status, medical condition or any protected category prohibited by local, state or federal laws.

PNRI requires vaccination for COVID 19 as a condition of employment.

Please see www.pnri.org for more information.

How to Apply:

at: hr@pnri.org. R S \$ L S R I \$ E P P W \$ P I E W I Z