Research Lab Tech Inter
Job Detail
Job Opening ID
145255
Working Title
Research Lab Tech Inter
Job Title
Research Lab Tech Intermediate
Work Location
Ann Arbor Campus
Ann Arbor, MI
Full/Part Time
Full-Time
Regular/Temporary
Regular
FLSA Status
Nonexempt
Organizational Group
Medical School
Department
Int Med-Infectious Diseases
Posting Begin/End Date
7/27/2017 – 8/11/2017
Career Interest
Research
How to Apply
A cover letter is required for consideration for this position and should be attached as the first page of your resume. The cover letter should include your specific interest in the position and outline skills and experience that directly relate to the position.
Job Summary

The Center for Microbial Systems Molecular Biology Laboratory offers high throughput automated DNA extraction and Next Generation Sequencing (NGS) using the Illumina MiSeq platform. NGS services are provided to laboratories at the University of Michigan as part of the Host Microbiome Initiative and to external clients from institutions worldwide. The laboratory is seeking a technician with NGS experience to join our growing Center for Microbial Systems team.

Responsibilities*

The Research Laboratory Tech will assist with sample handling and the Illumina MiSeq sequencing pipeline in the lab.

Duties include:

Receipt of samples, DNA extraction, library preparation for 16S rRNA gene amplicon, bacterial genome or metagenome sequencing, DNA and library quantification, quality assurance testing, MiSeq sequencing, data acquisition and distribution, and generation of run metric reports for clients.

Development of new techniques and protocols for the lab at the bench and on the epMotion automated liquid handler.

Standard operating procedure (SOP) and best practices authorship.

Participation in weekly lab meetings, microbiome seminars and trainings or workshops related to the responsibilities of the position.

Additional duties include but are not limited to routine lab maintenance, inventory of consumables and reagents, dishwashing and autoclaving, preparation of stock solutions and equipment maintenance.

Required Qualifications*

HS Diploma or Associates Degree and 1-3 years experience required.

Applicant must have strong meticulous record keeping and computer skills.

Excellent organizational, time management, multi-tasking and problem-solving skills are required.

Necessary prerequisites include a high degree of motivation and communication skills, the focus to process routine high-throughput sampling with consistent quality control standards, and the ability to think and work both independently and collaboratively as part of a team supporting the Center for Microbial Systems laboratories and the Host Microbiome Initiative.

Desired Qualifications*

A Bachelor’s degree in Molecular Biology, Microbiology or other related field.

4-5 years of experience in a related field with a minimum of one year of Next Generation Sequencing laboratory experience.

Experience with the following techniques: nucleic acid isolation and quantification, PCR and qPCR, gel electrophoresis, NGS library construction.
Previous experience with the following laboratory equipment: PCR and qPCR instrumentation, Agilent Bioanalyzer 2100, Illumina MiSeq.

Previous experience with method development, biological sample processing, high-throughput workflow and managing reagent and consumables inventory for cost analysis purposes.

Experience or interest to learn new procedures and methods including programming and operating the Eppendorf epMotion liquid handling system.

Background Screening

Michigan Medicine conducts background screening and pre-employment drug testing on job candidates upon acceptance of a contingent job offer and may use a third party administrator to conduct background screenings. Background screenings are performed in compliance with the Fair Credit Reporting Act.

Mission Statement

Michigan Medicine improves the health of patients, populations and communities through excellence in education, patient care, community service, research and technology development, and through leadership activities in Michigan, nationally and internationally. Our mission is guided by our Strategic Principles and has three critical components; patient care, education and research that together enhance our contribution to society.

Application Deadline

Job openings are posted for a minimum of seven calendar days. This job may be removed from posting boards and filled anytime after the minimum posting period has ended.

U-M EEO/AA Statement

The University of Michigan is an equal opportunity/affirmative action employer.