

Wastewater-Based Epidemiology Program Graduate Student Internship

Job Posting Date: 4/19/2022
Application Deadline: 5/9/2022

The Environmental Services Department (ESD) Laboratory, City of San José is seeking to hire a graduate student intern to support the research and development activity during the startup and testing of a new Wastewater-Based Epidemiology Program at the San Jose Santa Clara Regional Wastewater Facility (RWF). The Microbiology Research Intern will be part of the Microbiology team and will report directly to the Microbiologist. The intern will work with other Scientists in the team and participate in developing high quality, robust products through the integration of different components including instrumentation, software, consumables, and assays. The successful candidate will also experience working in a dynamic environment with a broader team including other laboratory departments. The research intern will have the opportunity to be involved in qualitative or quantitative analyses of wastewater-based epidemiology study findings.

Responsibilities include but are not limited to:

- Hands-on testing and integration of Digital PCR Systems, Software, & Consumables
- Work closely with other Scientists to support development activities and experiments
- Execute test plans, document observations and report issues encountered
- Gather test data and summarize information to present to the wider team
- Field sampling may be occasionally needed to support testing activities.

Minimum Qualifications

Education:

Completion of a bachelor's degree and current enrollment in a master's or doctorate degree program from an accredited college or university. Preferred areas of study: Microbiology, Molecular Biology, Public Health Epidemiology, Bioengineering, Biomedical Engineering, Biomedical Science, Bio-chemistry or related Biological Sciences degrees.

License:

Possession of a valid driver's license authorizing operation of a motor vehicle in the State of California may be required for some positions.

Employment Eligibility:

Federal law requires all employees to provide verification of their eligibility to work in this country. Please be informed that the City of San Jose will NOT sponsor, represent, or sign any documents related to visa applications/transfers for H1-B or any other type of visa which requires an employer application.

Desirable Qualifications:

- Course works involving molecular biology and microbiology and previous work experiences in environmental field investigations and lab-based research.
- Knowledge of MS Excel, Word, Access, and PowerPoint
- Excellent verbal and written communication skills
- Ability to collaborate and work in a team environment
- Ability to work safely and follow established instructions and guidelines
- Ability to perform a variety of tasks including fieldwork
- A strong self-starter who has a willingness to learn

Work Environment:

The work is performed within the San Jose-Santa Clara Regional Wastewater Facility Laboratory. The 12,000 square foot laboratory employs 28 skilled lab staff with related degrees in chemistry, microbiology, chemical engineering, or biology. There may be occasional sampling work may require going to designated sampling locations. The job is performed within designated start and end times that the lab establishes, Monday-Friday. On rare occasions, samples may be collected over the weekends. Should that happen, the intern will be notified well in advance. The City of San will provide the necessary safety training and PPEs needed for the job.

How to Apply:

To be considered for these graduate student internship opportunities, please follow the instructions below.

Email your resume and responses to the questions below to amarjeet.rai@sanjoseca.gov with the subject line: “Wastewater Based Epidemiology Internship” by Monday, May 9, 2022:

1. Are you currently enrolled in a Master’s Degree Program?
2. What is your area of study/major?
3. When is your expected graduation date?
4. Are you available to work for at least 6 months?
5. Are you available to work at the San Jose-Santa Clara Regional Wastewater Facility located at 700 Los Esteros Road, San Jose, CA 95134?
6. Do you have a valid drivers’ license authorizing operation of a motor vehicle in the State of California ?

If you have any questions, please contact amarjeet.rai@sanjoseca.gov.