

Yale Posting
Status

Original Posting
Date

STARS Requisition
number

Department Mol Biophys & Biochem

University Job Title Research Associate 1 MS

Posting Position
Title Research Associate 1

Bargaining Unit None Not included in the union (Yale Union Group)

Job Category

Type of
Employment Full Time

Duration Type Regular

Salary Grade

Work Location West Campus

Worksite Address Microbial Sciences Institute, 840 West Campus Drive

Work Week Standard (M-F equal number of hours per day)

Position Focus: A full-time research associate is needed for research in a lab studying bacterial pili and biofilms. More specifically, the goals of the lab are (1) to determine the mechanisms by which environmental bacteria transfer electrons along conductive pili, commonly referred to as “microbial nanowires”, (2) to determine the mechanisms by which pathogenic bacteria attach to host surfaces and cause infections using pili and related proteins. The Research Associate will provide organizational and research support for lab activities related to biophysical studies of bacterial pili, electrical properties of pili and their role in bacterial physiology. The Research Associate will facilitate general lab operation and provide experimental support in microbiology, biophysics, and biochemistry. This position will oversee all laboratory operation, ensure lab safety; organization of lab databases and records; implementing defined data collection protocols and ordering and maintenance of lab equipment and supplies. Conduct mutational analysis of bacterial proteins, protein purification, particularly bacterial pili proteins; anaerobic culture growth; cultivation of BSL2 level bacterial pathogens and their mammalian host cells, and mutational analysis of bacterial proteins. Significant contribution to the generation of publications and presentation of scientific data.

Department URL
Address:

Principal
Responsibilities 1. Recommends the design and implementation of procedures and protocols under the direction of a higher level authority. 2. Investigates, analyzes, and reaches preliminary scientific conclusions related to research planning 3. Ensures data results are compiled, analyzed, and presented properly. 4. Analyzes, develops and interprets scientific results. Maintains clear documentation of results. Prepares scientific reports and papers for research proposals and published reports. 5. Performs independent research and laboratory techniques and participates in experimental research planning. 6. Interacts with internal contacts including the PI, research assistants, graduate students, and Biological Safety officers to discuss and evaluate research results and to ensure the smooth and safe operation of the laboratory. 7. Interacts with external contacts such as researchers at other institutions, staff at biotechnology and reagents companies to consult on research methods and to keep abreast of product information and developments. 8. May perform other duties as assigned.

Required Master’s Degree in a scientific discipline and one year experience or an equivalent

Education and Experience	combination of education and experience.
Required Skill/Ability 1:	Skilled in the design, execution and analysis of experiments using a broad array of micro and molecular biology techniques.
Required Skill/Ability 2:	Experience in one or more of the following: mutational analysis of bacterial proteins, protein purification; anaerobic culture growth; cultivation of BSL2 level bacterial pathogens and their mammalian host cells,
Required Skill/Ability 3:	Ability to work independently as well as collaboratively. Eager to learn and flexible. Ability to function well in a demanding environment.
Required Skill/Ability 4:	Solid computer skills and experience using programs in Microsoft Office Suite.
Preferred Education, Experience and Skills:	Master's degree in Biochemistry, Chemistry, or Microbiology and at least three years of experience working in a laboratory; Experience with computer programs to analyze, interpret and manipulate scientific data using statistical techniques. Experience in equipment operation and laboratory maintenance.
Weekend Hours Required?	No
Evening Hours Required?	No
Drug Screen	No
Health Screening	No
Background Check Requirements	All External candidates for employment will be subject to pre-employment background screening for this position, which may include motor vehicle, DOT certification, drug testing and credit checks based on the position description and job requirements. All offers are contingent upon the successful completion of the background check. Please visit www.yale.edu/hronline/careers/screening/faqs.html for additional information on the background check requirements and process.
Posting Disclaimer	The intent of this job description is to provide a representative summary of the essential functions that will be required of the position and should not be construed as a declaration of specific duties and responsibilities of the particular position. Employees will be assigned specific job-related duties through their hiring departments.
Affirmative Action Statement:	Yale University considers applicants for employment without regard to, and does not discriminate on the basis of, an individual's sex, race, color, religion, age, disability, status as a veteran, or national or ethnic origin; nor does Yale discriminate on the basis of sexual orientation or gender identity or expression.