

## JOB DESCRIPTION

**Job Title:** SENIOR SCIENTIST MICROBIOLOGY  
**Job Code:** MBI 157  
**Location:** MBI Headquarters, Davis, CA

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Marrone Bio Innovations (MBI) is a global provider of natural products serving the ever expanding agricultural and water markets. Venture backed and headquartered in Davis, California, the company focuses on discovering, developing, and marketing natural pest management products for the effective control of pests, weeds, plant diseases, and invasive species.

The Microbiology Team has an open position for Research Scientist or Senior Scientist. The Research Scientist's primary responsibility will be to focus on developing bioassays for the evaluation of plant colonizers and endophytes' effects on plant stress and growth. A successful candidate will be a creative thinker, self-motivated, work well independently and in teams, and quickly adapt to shifting priorities. Must be able to create and foster a positive, collaborative and harmonious work environment around them.

### RESPONSIBILITIES AND DUTIES:

Responsibilities include:

- Contribute to microbiology team's isolation and screening projects, as well as pre-development tasks related to microbial characterization
- Isolate endophytes' from a variety of environmental samples
- Develop and perform efficient bioassays for the screening of microbial plant colonizers in lab and greenhouse scale
- Run colonization experiments with technical grade and formulated end products
- Contribute to the optimization of active candidates and their advancement in development phase
- Identify new tools, techniques and assays in an effort to implement a state-of-art technological plant health platform
- Mining of microbial genome data for relevant traits related to plant colonization, pest control or other targets
- Interface with plant biology and plant pathology team to evaluate effects of plant colonizers on plant health and disease resistance in greenhouse and field scale.
- Write reports, protocols, and present results to research teams during meetings and in professional meetings
- Write reports, literature reviews and publication manuscripts to support registration and patent filings
- Instruct and supervise scientists in the lab as needed
- Other duties as assigned.

### QUALIFICATIONS:

- Ph.D. in Plant Pathology, Plant Biology, Plant Physiology, Microbial Ecology, Molecular biology or other agriculturally-related field
- Experience in plant-microbe interactions, microbial plant colonization or related field.
- Documented successful track record in experimental design and hands-on laboratory experimentation.
- Industry experience is desirable, but not required
- Familiar with microbial tracking in plant tissue, fluorescence microscopy, and application of fluorescent probes for microbial tracking.
- Excellent written and verbal communication skills.
- Proficient in the use of common software (Microsoft Office, Outlook, etc.) and statistical analysis software (MiniTab, SAS, or similar)
- Able to work independently and in team settings with minimal supervision
- Capable of following directions in written, verbal, diagram, or calendar form
- Able to multitask and work in a fast paced environment with shifting priorities
- Excellent interpersonal skills

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### **ESSENTIAL MENTAL AND PHYSICAL FUNCTIONS:**

- Handling various chemical products, some of which have some level of hazard, such as solvents.
- A certain degree of manual dexterity in order to manipulate testing instruments and good visual acuity to withstand hours of testing observations.
- A fair amount of time sitting down and inputting test result data and writing up final reports on a computer will be required.
- An ability to lift 30 pounds is also required.

### **COMPENSATION:**

The salary range is competitive. MBI offers a comprehensive benefits package including stock options, a 401(k) plan with employer match, and a health plan including medical and dental coverage, life insurance coverage, long term disability, and a flexible spending account for child care or medical expenses. In addition, this position is eligible for an annual bonus plan tied to individual and company performance goals.

The above is a list of essential duties and responsibilities for this position. This list is not all-inclusive. This job description may be modified as needed.

MBI is an equal-opportunity employer. A pre-employment drug screen will be required.

**Please submit cover letter and CV to [jobs@marronebio.com](mailto:jobs@marronebio.com) referencing the job code listed above.**