

RESEARCH SCIENTIST

KEY DELIVERABLES

- Work with the Principal Scientist and other teammates to attain the goals of strategic research projects around company's engineered biocarbon™ technology.

KEY RESPONSIBILITIES

- Initial research project is to support the development of new microbial carrier formulations of biochar based substrates for agricultural use.
- Design, conduct and manage molecular biological studies to determine the effects of engineered biocarbon technology on the physicochemical properties of soil and plant-microbial interactions.
- Initiate microbiological experiments to determine the effectiveness of formulations as microbial carriers of beneficial plant and soil microbes.
- Advance the understanding of the physical and chemical properties that impact microbial growth rates and stability.
- Effectively collaborate with other team members to understand the fundamental and practical aspects of using engineered biocarbon™ technology in agriculture. For example,
 - Impact to soil microbial ecology and properties that impact crop productivity and abiotic or biotic stress tolerance.
 - Impact to gut microbiome that impact animal feed digestion, methane production, and manure quality

KEY SCORECARD MEASUREMENTS

- Research project(s) progress/success vs. goals

SKILLS & KNOWLEDGE, EXPERIENCE & TRAINING

- Work experience using basic molecular biological and genetic methods such as DNA/RNA/protein purification, qPCR, gel electrophoresis, genomic analysis tools, primer design, bacterial transformations and selections
- 3+ years' post-graduate or industry experience
- Prior work experience with various microbial species
 - Preferably in studies of molecular plant-microbe
- Proven record of scientific innovation
 - Preferably in peer reviewed publications
- Master's degree in microbiology, molecular biology, or genetics
- Very strong research project management skills
- Strong statistical analysis skills
- Team player with the ability to work across the organization
- A Hands-on, roll-up your sleeves attitude and work conduct
- Excellent written and verbal communication skills
- Solid organizational skills including attention to detail and multi-tasking skills
- Creativity and forward thinking to help identify hypotheses and the effective test methods to efficiently progress research towards business goals
- Strong working knowledge of Microsoft Office (Word, Excel, PowerPoint, Outlook)

ADDITIONAL REQUIREMENTS

- Position located in Camarillo, CA
- Position will report to the Strategic R&D Manager & Principal Scientist

- This role requires the employee to work in varied environments including a BSL-1 laboratory and office setting
- At times this role will require the employee to wear Personal Protective Equipment and work with hazardous chemicals and live organisms
- While performing the duties of this job, the employee may be regularly required to stand, sit, walk, use hands to handle or feel, reach with hands and arms, balance and stoop, or crouch
- The employee is frequently required to effectively communicate with others
- Infrequent travel is required