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[Research Scientist - Full Time](#)

[Job Details](#)

[Job Location](#)

[St. Louis - Saint Louis, MO](#)

[Position Type](#)

[Full Time](#)

[Education Level](#)

[Graduate Degree](#)

[Job Category](#)

[Biotech](#)

Description: The Donald Danforth Plant Science Center is seeking highly motivated and organized individuals to fill two full-time positions as Research Scientists for the development and characterization of anti-microbial peptides for commercialization (anticipated start date, as soon as possible).

Responsibilities:

- Antimicrobial peptide expression in eukaryotic and/or prokaryotic expression systems, purification and modes of antifungal action studies, in vitro and in planta antifungal assays
- Working closely with the project manager to manage project deliverables/timelines and successfully achieve project goals
- Trouble-shooting instrumentation, routine lab maintenance and electronic recordkeeping
- Other duties as assigned

Required knowledge, skills, and abilities:

- Hands-on experience with the expression and purification of proteins, peptides and biochemical characterization
- Experience working with fungal pathogens and cell biology to characterize their responses to anti-microbial peptides
- Hands-on experience with peptides, in vitro antifungal assays, in planta growth chamber and greenhouse antifungal assays, quantitative disease resistance analyses
- Prior experience with sterile techniques of maintenance and culturing of fungal pathogens and growing healthy plants in growth chamber/greenhouse for disease assays
- Demonstrated experience using advanced imaging techniques such as confocal microscopy
- Laboratory experience and excellent organization, recordkeeping and communication skills
- Ability to work both independently and collaboratively within a multidisciplinary and interactive research environment
- Initiative and demonstrated creative problem-solving skills
- Ability to contribute substantially to publications, grants and patents
- Ability to analyze, troubleshoot and optimize laboratory protocols and instrumentation
- Live the Danforth Center values: Collaboration, Diversity & Inclusion, Innovation, Integrity & Respect, Environmental Sustainability, and Stewardship

Qualifications:

- PhD in Biology, Plant Pathology, Plant Science, Biochemistry, Biotechnology or related Life Science field with at least 2-3 years subsequent laboratory experience

Submission:

- Cover letter that describes past research experience
- CV
- Contact information for three (3) professional references

About the Donald Danforth Plant Science Center:

Founded in 1998, The Donald Danforth Plant Science Center is an independent, non-profit organization with a mission to improve the human condition through plant science. Our focus is scientific research at the nexus of food, energy and the environment to improve the productivity and sustainability of agriculture. We assemble interactive teams of scientists and develop unique platforms to discover underlying principles about how plants work. We then convert that knowledge into useful crops and products, and partner with organizations that are best positioned to solve problems where they exist around the world. The Centers work is funded through competitive grants from many sources, including the National Institutes of Health, U.S. Department of Energy, National Science Foundation and the Bill & Melinda Gates Foundation.

The Donald Danforth Plant Science Center is proudly an equal employment opportunity employer. Employment decisions at the Danforth Center are based on merit, qualifications, and abilities. It is our policy that the Danforth Center does not discriminate in employment opportunities on the basis of race, color, religion, sex, sexual orientation, gender identity, age, or national origin and status as protected veterans or individuals with disabilities. As a federal contractor, the Danforth Center is required to comply with the 2021 Executive Order mandating full vaccination status of employees by December 8, 2021 unless the employee is legally entitled to an accommodation due to physical disability or sincerely held religious belief. If you need a reasonable accommodation to access the information provided on this web site, please contact Human Resources, at 314-587-1033 for further assistance.

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