



LOUISIANA STATE UNIVERSITY

College of Science

Department of Biological Sciences

Postdoctoral researcher position

In this position, the postdoctoral researcher will work in close collaboration with a diverse team of scientists from multiple institutions to perform the following research tasks: 1) Multi-gene engineering in plants (mostly non-models), 2) Genome assembly and annotation, 3) Transcriptome data analysis, and 4) Candidate gene identification for different traits of interest.

Major Duties/Responsibilities:

- Design and build gene constructs
- Transform gene constructs into plants, mostly non-models
- Molecular and phenotypic analysis of genetically modified plants
- Analyze high throughput sequencing datasets for candidate gene identification
- Present research progress in project meetings and national/international conferences
- Publish scientific results in peer-reviewed journals in a timely manner
- Training graduate and undergraduate students in plant transformation techniques
- Maintain detailed and accurate records
- Acquire and analyze data to meet project timelines
- Demonstrated ability to troubleshoot independently
- Ensure compliance with environmental, safety, and health requirements relevant to each project
- Maintain strong dedication to the implementation and perpetuation of values and ethics

Basic Qualifications:

- A PhD in plant biology, biotechnology, biochemistry, molecular biology, genetics, genomics or a related field completed within the last 2 years

Preferred Qualifications:

- Expertise in molecular cloning (e.g., Green Gate cloning)
- Experience in virus induced gene silencing and plant transient gene expression (e.g., leaf infiltration, protoplast transformation)
- Experience in stable plant transformation in model and non-model plants
- Experience in plant genome editing
- Analyzing high-throughput genomic and transcriptomic data
- Effective writing and communication skills with a strong publication record
- Desire to work both independently and collaboratively as part of a multidisciplinary and multi-institutional team

The initial contract is for 1 year with the potential for extension up to 5 years. Initial appointments and extensions are subject to performance and the availability of funding.

For more details contact Dr. Maheshi Dassanayake (maheshid@lsu.edu) and for current ongoing projects visit lab website: www.lugenomics.org.