Postdoctoral Research Associate, Plant Systems Biology

Purpose
The Plant Systems Biology group within the Biosciences Division at Oak Ridge National Laboratory (ORNL) seeks one postdoctoral researcher with experience in plant molecular biology, molecular genetics and biochemistry.

Major Duties / Responsibilities
The selected candidate will join a multi-disciplinary team of investigators undertaking broad, integrated approaches to enhance feedstock characteristics and productivity of bioenergy crops. The project funded by the U.S. Department of Energy focuses on the investigation of the molecular mechanism underlying biomass recalcitrance.


Qualifications
A Ph.D. in plant molecular biology, genetics, biochemistry, cell biology, plant biology or related fields is required. Prior knowledge and demonstrated expertise in one or more of the following areas are required:

1) gene cloning and plant transformation
2) gene expression analysis (e.g., qRT and RNAseq)
3) chemical and anatomical analysis of cell wall structure and composition
4) protein-protein interactions (e.g., protein expression, Y2H, BiFC, pull-down)
5) DNA-protein interactions (e.g., ChIP)
6) bioinformatics (e.g., co-expression and network analyses)

The selected candidate will work extensively with transgenic lines and natural variants in Populus as well as transgenic lines and mutants in Arabidopsis. Prior experience working with Populus is favorable. Proven publication record is required. Excellent oral and written communication skills and ability to work in a team are required.

Application cannot have received the PhD degree more than five years prior to the date of application and must complete all degree requirements before starting their appointment.

This position is a full-time assignment for 24 months, contingent on successful performance and continued funding.

Remarks
For Further Information Contact:
Dr. Gerald A. Tuskan, Group Lead
Plant Systems Biology group
(865) 576-8141
gtk@ornl.gov

ORNL is an equal opportunity employer. All qualified applicants, including individuals with disabilities and protected veterans, are encouraged to apply.