

Post Master's Research Associate in Plant Molecular Biology/Bioinformatics

**Environmental Sciences Division
Biological and Environmental Sciences Directorate
Oak Ridge National Laboratory
Oak Ridge, Tennessee**

ORNL09-106-ESD

Project Description:

This is a 1-year post-master position with the option for a second year appointment. The selected candidate will design PCR primers for creating gene constructs to overexpress and knockdown genes in transgenic *Populus* plants, and interact with scientists and postdocs from various institutes/universities within the BioEnergy Science Center regarding construct design. The candidate will also work on manual annotation of *Populus* genes as well as analysis and curation of selected gene families. In addition, it is expected that the candidate will conduct creative research in computational genomics related to gene expression networks, conserved co-expression, genome evolution, and DNA polymorphisms.

Qualifications:

Applicants are expected to have a Master's degree (or Master's equivalent) in plant molecular biology or a related field. The graduate students who are in the middle stage of their Ph.D. programs and have finished their course studies are desired. Candidates should be familiar with gene construct design and molecular cloning. Research experience in *Populus* molecular biology is not required but preferred. The candidates should also be familiar with bioinformatic tools for gene function analysis. Ability to do independent research is a plus.

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

Technical Questions:

Questions regarding the position can be directed to Gerald Tuskan at tuskanga@ornl.gov

How to Apply:

Qualified applicants must apply online at https://www2.ornl.gov/ORNL_POST/. All applicants will need to register before they can begin the online application. For complete instructions, on how to apply, please see the instructions at <http://www.ornl.gov/orise/edu/ornl/ornl-pdpm/application.htm>. When applying for this position, please reference the position title and number.

This appointment is offered through the ORNL Postgraduate Research Participation Program and is administered by the Oak Ridge Institute for Science and Education (ORISE). The program is open to all qualified U.S. and non-U.S. citizens without regard to race, color, age, religion, sex, national origin, physical or mental disability, or status as a Vietnam-era veteran or disabled veteran.