

Position Functional Title: Research Technician

Department: Plant Transformation

Reports To: Principal Scientist

Position Duties and Responsibilities:

Be responsible for and help out in transformation protocol development projects:

Duties:

- media preparation for plant tissue and bacterial culture
- maintenance of plant tissue and bacterial cultures
- routine analysis of transgenic plants (bar strip test, gus staining methods)
- molecular characterization of transgenic plants (PCR, qPCR, Southern DNA, Northern RNA and Western protein analysis)
- planting and harvesting cycles in growth chambers or greenhouse
- all aspects of vector construction (restriction enzyme digestions, PCR reactions, DNA sequencing reactions, VNTI software)

Responsibilities:

- Participate in construction of Arcadia FTO binary vector
- Participate in transgenic safflower production for ARA Project
- Optimize parameters affecting wheat transformation (media composition, Agro strains, timing of subculture)
- Participate in implementing co-transformation in canola and safflower
- Participate in evaluating alternative selectable markers

Position Requirements:

BSc degree in plant-related discipline + 1 year of relevant laboratory experience