

Zackary Taylor Moore
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SUMMARY OF QUALIFICATIONS

Over 6 years experience in the field of plant science and landscape management with activities ranging from turf grass maintenance and greenhouse management to plant propagation. Performed greenhouse management duties for the Plant Genomics Group at ORNL since September 2008 while completing a BS degree in Plant Science at The University of Tennessee.

EDUCATION

B.S, May 2010
Plant Science
University of Tennessee, Knoxville, TN

Diploma, May 2005
Midway High School, Kingston, TN

PROFESSIONAL EXPERIENCE

Greenhouse Technician

Oak Ridge National Laboratory (06/2010- Current)

Higher Education Research Experience, Internship

Oak Ridge National Laboratory (08/2008- 06/2010)

Duties: Broad overview of tasks includes plant propagation, fertilization, irrigation, IPM, tissue culture, and data logging.

Laborer

Oak Ridge National Laboratory (05/2008-08/2008)

Duties: Crew leading, turf establishment, fertilization, aeration, seeding, pesticide application and landscape plant maintenance.

Greenhouse Coordinator and Spray Technician

Evergreen Nursery & Landscape Company,
A Subsidiary of Beyond Technology Corporation (05/2007-08/2007)

Duties: Coordinated all pest management, chemical application, fertilization, plant propagation, and irrigation aspects.

Warranty Administration and Technical Support

Astec Underground Inc.

(02/2007-08/2008))

Duties: Administered all warranty procedures to international and domestic dealers. Processed and managed all warranty documentation. Traveled to assist dealers with warranty and technical issues including policies, product introduction and product repair.

Production Welding

Astec Underground Inc.

(08/2006-02/2007)

Duties: Fabricated Astec trencher and directional drill parts via mig, stick and braze welding.

Grounds Maintenance

Astec Underground Inc.

(09/2004-08/2006)

Duties: Turf and ornamental plant establishment, mowing, trimming, fertilization, aeration, seeding, pesticide application, and landscape maintenance.

Grounds Maintenance

Whitestone Country Inn

(09/2002-09/2004)

Duties: Turf and ornamental plant establishment, mowing, trimming, fertilization, aeration, seeding, pesticide application, and landscape maintenance.

RESEARCH EXPERIENCE

“Effects of Far-Red Light on *Glicine Max* Growth” (Moore et. al, April 2010)

“Propagation of Hybrid Aspen through Cuttings for Studying Root Development: Challenges and Solutions” (Basu et. al, October 2008)

“Various Hormone Effects on Petiole Abscission” (Moore et. al, April 2008)

“Translocation of Herbicides Utilizing Radioactive Carbon in *Poa Annua*” (2008)

PRESENTATIONS

University of Tennessee, “Effects of Far-Red Light on *Glycine max* Growth”

University of Tennessee, “Balance Sheets in the Green Industry”

University of Tennessee, “Benefits of Turfgrass in Landscape”

University of Tennessee, “Benefits of Sod Verses Seed Establishment”

University of Tennessee, “Physiology and Origin of Tobacco”

University of Tennessee, “Disease and Pest Prevention on ‘Tifway 419’ Bermudagrass Athletic Fields”

CERTIFICATIONS, TRAINING & SKILLS

Certifications

State of Tennessee Commercial Pesticide Applicator Certification
-Class Three Applicator Certification

Training (ORNL)

*ORNL New Employee Orientation

*SEC Brief ORNL New Hires

Waste Certification Program

Waste Generator Awareness Training

Cyber Security Awareness Training

Chemical Hygiene Plan

Job Specific Hazard Training

Fire Extinguisher Education Program

ORNL Site Access Training

General Hazard Communication

Dust Mask Training

Materials of Trade

Work Control Operation Maint Serv Lesson 3

Handling & Application of Pesticides

ISSM Awareness Training

Lab Hood User Safety Training

Liquid Waste Generator ORNL

Heat Stress Training

Electrical Work Practices Training

Environmental Management System Awareness

Beryllium Generator Awareness

Access to Radiological Areas

General Hazard Communication

ORNL Chemical Hygiene Plan Revision Four

ORNL Hazcom Training

Free From Influence General Employee

Electrical Work Practices Training

RCRA Hazardous Waste Awareness Training

F & O Waste Awareness Training

Skills

Thorough knowledge of Microsoft Word, Excel, PowerPoint, and Access

Experienced in Wadsworth automated environment system controls

Knowledgeable and experienced in transgenic poplar, poplar care and GMO handling and disposal

Familiar with Superior Controls (mist systems)

Knowledge of maintenance and construction of irrigation and fertigation systems including injector systems such as a Dosatron

Extensive integrated pest management (IPM) knowledge including pest identification, disease identification and current area chemical recommendations

Experienced in Conviron (Conviron Environments Limited) controlled environments (growth chambers).

Plant propagation including cuttings, grafting and tissue culture

Familiar with Rizotron root scanners

Familiar with poplar within the Plant Genomics Group including constructs and given gene identification

Experienced in numerous greenhouse operations such as: Fertilization, Pruning, Watering Regimens, Propagation Techniques, Tissue Sampling, Tissue Grinding (Dayton Grinders), Transplanting, Media Preparation and Mixing, Materials and Tool Sterilization

RELATED COLLEGE COURSES

In Major Course Work: Botany, Plant Physiology, Soil Science, Plant Propagation, Soil Nutrient Management and Fertilizers, Interpreting Research Findings, Ecology, Diseases and Insects of Ornamental Plants, Turfgrass Management, Horticulture: Principles and Practices, Fundamentals of Landscape Design, Weed Management, Integrated Turfgrass Management and Environmental Benefits, Turfgrass Entomology, Turf Root-Zone Construction, Advanced Turf Practicum, Fruit and Vegetable Crops, Advanced Turfgrass Management, Professional Practices of the Green Industry, Grounds Maintenance, Agricultural Economics

Supporting Courses: Statistical Reasoning, Mathematical Reasoning, Technical and Professional Writing, Composition I & II, Public Speaking, Economics, Computer Applications, College Algebra, Biology I & II, Chemistry I & II

COMMUNITY SERVICE ACTIVITIES

Midway High School, Volunteer Chemical Applicator. (Current)
Apply pesticides, herbicides, and fungicides to Midway High School Football field for no exchange of money or service.

The Green T Plant Science Club, Secretary. (January 2008- May 2010)
Installation of the University of Tennessee Medical Center Healing Garden (2009)
Installation of a home landscape for widow of a soldier killed in Iraq (2008)
Ijams Nature Center Cleanup (2008)

AFFILIATES

Dr. Mark Windham University of Tennessee, Plant Pathology

Dr. Jerome Grant University of Tennessee, Entomology

Ms. Lori Osburn University of Tennessee, Research Staff
Poplar Greenhouse Manager

Ms. Aditi Victor Arborgen LLC. Greenhouse Manager

Dr. Frank Hale University of Tennessee, Entomology and Plant Pathology
Nashville Extension Diagnostics Center
(University of Tennessee Soil, Plant and Pest Center)

Dr. Allan Windham University of Tennessee, Entomology and Plant Pathology
Nashville Extension Diagnostics Center
(University of Tennessee Soil, Plant and Pest Center)

REFERENCES

Lee Gunter Oak Ridge National Laboratory Environmental Sciences Division Phone: (865) 574-4020, P.O. Box 2008 Oak Ridge, TN 37831-6034	Curtis Moore Oak Ridge National Laboratory Phone: (865)-574-4373 P.O. Box 2008 Oak Ridge, TN 37831-6111
Dr. John SoroChan, PhD The University of Tennessee Academic Advisor Phone: (865) 974-7324 2505 E J Chapman Drive Knoxville, TN 37996-4561	Bruce Parks, CEO Beyond Technology Corporation Phone: (865) 591-7515 255 Southlake Drive Kingston, TN 37763