Daniel Whitfield

Biomedical Engineering Research Assistant

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Summary

Biomedical engineering junior at Georgia Tech, graduating in May 2028, working 15 hours a week in a tissue mechanics research lab. Handles cell culture, mechanical testing and image analysis in ImageJ and MATLAB, and ran the statistical analysis behind a conference abstract. Careful with protocols, lab notebooks and sample records.

Experience

Biomedical Engineering Research Assistant

01/2026 - Present

Tissue Mechanics Lab, Georgia Institute of Technology Atlanta, GA

Undergraduate research position in a faculty lab studying collagen scaffolds for tendon repair.

- **Maintain cell culture for 4 fibroblast lines and seed collagen scaffolds for weekly mechanical testing runs.**
- **Analyze confocal images in ImageJ and MATLAB, processing about 600 images a month for the scaffold study.**
- **Run statistical analysis in GraphPad Prism and Python; the results went into 1 accepted conference abstract.**
- **Draft 3 standard operating procedures during protocol development for a new bioreactor, now used by 6 lab members.**

Pharmacy Technician (Part-Time)

06/2024 - 12/2025

Midtown Community Pharmacy Atlanta, GA

Weekend and summer shifts at an independent retail pharmacy.

- **Filled and labeled 150+ prescriptions per shift for pharmacist verification.**
- **Resolved about 20 rejected insurance claims a week by correcting patient and plan data.**
- **Logged refrigerated vaccine storage temperatures twice daily to meet state board inspection rules.**

Education

Bachelor of Science

05/2028

Georgia Institute of Technology Atlanta, GA

Biomedical Engineering

Skills

- **Cell Culture**
- **Mechanical Testing**
- **ImageJ**
- **MATLAB**
- **Python**
- **GraphPad Prism**
- **Statistical Analysis**
- **Protocol Development**
- **Aseptic Technique**

Certificates

Biomedical Responsible Conduct of Research

01/2026

CITI Program