

# Brooklyn Ballard

## Geotechnical Lab and Field Summer Intern

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### SUMMARY

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Dedicated Civil Engineering student with hands-on experience in geotechnical lab testing and field observation. Proven ability to assist with soil and concrete testing, ensuring accurate documentation of results. Skilled in using measurement tools and performing basic mathematical procedures. Strong verbal and written communication abilities reflect a commitment to teamwork and exploration of professional growth in engineering environments. Eager to leverage academic knowledge and practical experience as a Summer Intern within an innovative engineering firm.

### EDUCATION

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#### Bachelor's Degree in Civil Engineering

Penn State University 🎓 GPA: 3.8 📅 2026 📍 State College, PA

*Coursework: Soil Mechanics, Structural Analysis, Hydraulics, Materials Science*

### TECHNICAL SKILLS

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- **Lab Equipment:** Micrometer, Caliper, Nuclear Gauge
- **Software Tools:** AutoCAD, MATLAB, GIS
- **Testing Standards:** ASTM, AASHTO, ISO
- **Mathematical Tools:** Calculators, SpreadSheets, Statistical Software
- **Communication Tools:** Microsoft Office, Google Docs, Team Collaboration Platforms
- **Research Techniques:** Field Sampling, Data Analysis, Report Drafting
- **Project Management Tools:** Trello, Asana, Gantt Charts
- **Documentation Standards:** APA, MLA, Technical Formatting
- **Environmental Safety Practices:** Hazard Recognition, Safety Protocols, Emergency Procedures
- **Quality Assurance Methods:** Peer Review, Process Audits, Compliance Checks

### SKILLS

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- Laboratory Testing
- Effective Communication
- Sieve Analysis
- Research Writing
- Soil Analysis
- Team Collaboration
- Atterberg Limits
- Problem Solving
- Data Documentation
- Concrete Testing
- Math Skills
- Testing Methodologies
- Technical Reporting
- Field Observation
- Measurement Tools
- Report Creation

### EXPERIENCE

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#### Geotechnical Testing Intern

University Project 📅 June 2025 – August 2025 📍 State College, PA

Contributed to laboratory and field efforts through rigorous soil and concrete testing, while effectively documenting results for compliance and reporting. Collaborated with team members in enhancing testing methodologies that elevate lab efficiency and precision.

- Assisted in lab testing procedures including sieve analysis and Atterberg limits for various soil samples.
- Conducted compressive strength testing of concrete cylinder samples, ensuring compliance with industry standards.
- Documented results clearly and accurately, contributing to comprehensive project reports.
- Supported field observation tasks by sampling construction materials and recording findings for further analysis.
- Collaborated with peers to enhance testing methodologies and improve lab efficiency.
- Participated in weekly meetings to discuss project progress and propose improvements.

#### Civil Engineering Research Assistant

University Research Lab 📅 September 2024 – May 2025 📍 State College, PA

Assisted in research focused on soil behavior under varying moisture conditions, while building foundational technical skills in laboratory operations and data collection methods. Engaged with faculty members to present findings and enrich peer learning experiences.

- Engaged in research focused on soil behavior under varying moisture conditions, contributing to a published report.
- Utilized measurement tools to analyze soil samples and assist in data collection for ongoing studies.
- Developed technical skills in lab equipment operation and maintenance, ensuring safety and functionality.
- Collaborated with faculty on lab experiments and presented findings to student peers.
- Enhanced communication skills by preparing and delivering presentations on research outcomes.

- Contributed to the development of new testing protocols to streamline research processes.

## LEADERSHIP & AWARDS

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- Dean's List for Academic Excellence, 2024
- Winner, State Engineering Competition, 2025

## CERTIFICATIONS

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- First Aid Certification 📅 2024
- OSHA Safety Training 📅 2024

## PROFESSIONAL AFFILIATIONS

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- Member, Civil Engineering Society, 2024 – Present
- Volunteer, Engineering Outreach Program, 2024

## LANGUAGES

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- English (Native) • Spanish (Intermediate)

## ADDITIONAL INFORMATION

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**Work Status** : Authorized to work in United States. No sponsorship required.

## REFERENCES

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AVAILABLE ON REQUEST