

George Stanley

Materials Chemistry Intern

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SUMMARY

Driven Chemical Engineering student with substantial experience in laboratory testing and materials analysis through academic projects. Developed reports by analyzing experimental data, showcasing adeptness at synthesizing findings in concise formats. Demonstrated strong adaptability while managing multiple priorities effectively. Collaborated within teams to enhance research methodology, contributing valuable insights consistently. Passionate about sustainability and innovation, positioning self as an advocate for advanced material development.

EDUCATION

Bachelor of Science in Chemical Engineering

Springfield University 🎓 GPA: 3.7 📅 2026 📍 Springfield, MA

Coursework: Thermodynamics, Organic Chemistry, Material Science, Environmental Engineering

TECHNICAL SKILLS

- **Analytical Instruments:** HPLC, GC-MS, UV-Vis Spectrophotometry
- **Lab Safety Standards:** OSHA Regulations, Chemical Hygiene Plan, Risk Assessment Protocols
- **Sustainable Materials:** Biodegradable Polymers, Renewable Resources, Eco-friendly Coatings
- **Data Analysis Software:** Excel, MATLAB, OriginLab
- **Research Methodologies:** Experimental Design, Statistical Analysis, Literary Review Techniques
- **Quality Management Systems:** ISO 9001, Total Quality Management, Continuous Improvement Strategies
- **Laboratory Equipment:** Spectrometers, Meters, Microscopes
- **Material Characterization Techniques:** FTIR, DSC, Rheology
- **Presentation Software:** PowerPoint, Prezi, Google Slides
- **Collaboration Tools:** Trello, Asana, Microsoft Teams

SKILLS

- Analytical Chemistry
- Laboratory Testing
- Research & Development
- Quality Management
- Technical Reporting
- Project Management
- Sustainability Practices
- Team Collaboration
- Experimental Design
- Data Analysis
- Material Sourcing
- Report Writing
- Safety Protocols
- Testing Instruments
- Document Control
- Procedure Optimization

EXPERIENCE

Chemical Engineering Intern

University Project 📅 September 2025 - May 2026 📍 Remote

Engaged in hands-on laboratory work, specializing in biodegradable coating materials. Supported R&D initiatives through analytical testing, thorough documentation, and innovative product validation.

- Executed experiments assessing properties of environmentally-friendly coatings, aligning results with sustainability benchmarks.
- Applied analytical instruments for product testing, ensuring data accuracy matched technical requirements.
- Generated detailed reports capturing key findings for both academic review and industry relevance.
- Worked closely with team members to refine procedures, boosting efficiency of material characterization efforts.
- Preserved comprehensive records adhering to quality management protocols governing research integrity.
- Facilitated peer insight discussions, addressing challenges smoothly throughout the project lifespan.

Research Assistant

Academic Research Lab 📅 January 2025 - August 2025 📍 Springfield, MA

Supported critical research aimed at developing renewable material textiles. Contributed significantly towards published outcomes by ensuring high-quality standards in testing methodologies.

- Conducted rigorous quality assessments on raw materials, confirming compliance with all outlined specifications.
- Participated in lab operational duties, including equipment calibration and safety oversight, fostering a safe research environment.
- Synthesized pivotal research findings into structured reports, enhancing communication between faculty and peers.
- Collaborated across disciplines to refine product development strategies, expediting testing processes.
- Championed new testing methodologies designed to increase data accuracy and positive lab practices.
- Maintained robust organization in lab details, contributing to overall research productivity.

Materials Testing Developer

Capstone Project 📅 September 2024 - December 2024 📍 Springfield, MA

Led a collaborative project centered around alternative packaging materials, driving toward impactful sustainable applications. Conducted market research to analyze real-world viability of developed solutions.

- Headed exploratory efforts of packaging alternatives, producing actionable findings against commercial considerations.
- Presented research conclusions at university-sponsored events to engage wider academic and public audiences.
- Engaged local businesses to assess practical application opportunities tied to research outputs, blending theory with practice.
- Developed prototypes exemplifying research findings and demonstrated potential environmental benefits directly.
- Utilized teamwork skills alongside faculty mentors to adapt project goals ensuring alignment with relevant demands.
- Dedicated time refining deliverable-focused objectives that bolstered engaged stakeholder expectations.

LEADERSHIP & AWARDS

- Dean's List - Springfield University, Fall 2024 and Spring 2025
- First Place, University-wide Innovation Challenge, 2025

CERTIFICATIONS

- Certified Lab Technician 📅 2025
- Introduction to Sustainable Materials 📅 2026

PROFESSIONAL AFFILIATIONS

- Member, Chemical Engineering Society, Springfield University
- Volunteer, Local Environmental Clean-Up Initiative, 2025

LANGUAGES

- English (Native) • Spanish (Proficient)

ADDITIONAL INFORMATION

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

REFERENCES

AVAILABLE ON REQUEST