



Amina Cook

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SUMMARY

Detail-oriented Chemical Materials & Technology Engineer motivated by a passion for advancing research and product development in analytical chemistry. Bringing four years of hands-on experience operating sophisticated laboratory instrumentation including ICP-OES and FTIR, while developing efficient analytical methods to uphold stringent quality assurance standards. Adept at working collaboratively with cross-functional teams in fast-paced environments to troubleshoot and enhance processes that bolster productivity. Proficient in compliance with GLP, CGMP, and ISO 9001 frameworks, ensuring accuracy and safety across all laboratory operations. Committed to delivering comprehensive technical documentation and effective presentations tailored to both technical and non-technical audiences.

EXPERIENCE

Chemical Materials & Technology Engineer

June 2023 - Present

Innovative Solutions Group

Baltimore, MD

Oversees laboratory functions encompassing method development and instrument operations while ensuring regulatory compliance. Leverages skills in analytical techniques to drive product quality enhancement initiatives.

- Operated complex lab equipment such as ICP-OES and FTIR, optimizing functionality and strict adherence to safety standards.
- Developed and validated various analytical methodologies, significantly elevating the precision of quality control processes.
- Designed and executed experiments with spectroscopy and chromatography, facilitating vital material analyses for product innovation.
- Enhanced collaboration efforts between manufacturing and R&D teams, directly contributing to a boost in production efficiency.
- Oversaw LIMS-based data management, guaranteeing traceability and compliance with all relevant regulations.
- Crafted detailed technical reports that documented methodologies and experimental results, fostering informed decision-making based on well-articulated findings.

Laboratory Technician

August 2021 - May 2023

GreenTech Laboratories

Annapolis, MD

Executed quality control tests while supporting R&D initiatives, ensuring rigorous compliance with standards and enhancing laboratory processes.

- Conducted extensive routine quality testing of chemical products, meeting all internal and regulatory specifications effectively.
- Applied wet chemistry techniques and electrochemical analyses to aid innovative product formulation processes.
- Collaborated seamlessly with R&D personnel, streamlining lab workflows for quicker output and enhanced efficiencies.
- Maintained compliance with safety protocols specializing in GLP and CGMP norms, resulting in safe lab operations.
- Facilitated training programs for new recruits, creating an atmosphere focused on collaborative growth and safety practices.
- Delivered clear presentations of technical findings to diverse stakeholders, improving overall understanding of product implications.

Research Intern

June 2020 - July 2021

ChemTech Solutions

Rockville, MD

Supported ongoing research projects through method development and data collection while ensuring organized record-keeping.

- Participated in the design and execution of analytical methods, gaining initial exposure to advanced chromatic and spectroscopic tools.
- Assisted in trials evaluating different formulations, crucially refining product outlines and aligning with project benchmarks.
- Worked alongside seasoned scientists to gather and compile data for internal assessments, enhancing reporting and presentation formats.
- Sustained accurate laboratory records, strictly observing safety protocols and compliance during all phases of experimentation.
- Actively involved in team discussions to relay progress updates and share insightful observations, nurturing collaborative communication.
- Prepared presentations conveying research outcomes and findings clearly to technical teams, fostering knowledge transfer.

LEADERSHIP & AWARDS

- Dean's List, University of Maryland - 2022, 2023
- First Place, Chemistry Undergraduate Research Competition - 2025

EDUCATION

Bachelor's Degree in Chemistry

2026

University of Maryland GPA: 3.7

College Park, MD

Coursework: Analytical Chemistry, Spectroscopy, Quality Control, Data Analysis

CERTIFICATIONS

- Certified Quality Improvement Associate (CQIA) 📅 2025
- LIMS Training Certification 📅 2025

TECHNICAL SKILLS

- **Analytical Equipment:** ICP-OES, FTIR, TGA
- **Chromatography Techniques:** GC, HPLC
- **Spectroscopy Techniques:** UV-Vis, NMR, FTIR
- **Compliance Standards:** GLP, CGMP, ISO 9001
- **Laboratory Safety Practices:** Personal Protective Equipment, Hazardous Waste Management, Chemical Storage
- **Quality Control Procedures:** Testing Protocols, Regulatory Compliance, Data Validation
- **Data Management Systems:** LIMS, LabWare, LabVantage
- **Chemical Analysis Methods:** Titrations, ASTM Methods, Colorimetric Assays
- **Research Methodologies:** Hypothesis Testing, Experiment Design, Statistical Analysis
- **Presentation Tools:** Microsoft PowerPoint, Tableau, Google Slides

SKILLS

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|------------------------------|-------------------|---------------------------|----------------------------------|
| • Analytical Chemistry | • GLP | • Technical Documentation | • Wet Chemistry |
| • Laboratory Instrumentation | • CGMP | • Team Collaboration | • Electrochemical Analysis |
| • Method Development | • ISO 9001 | • Spectroscopy | • Safety Compliance |
| • Quality Control | • Data Management | • Chromatography | • Cross-Functional Collaboration |

PROFESSIONAL AFFILIATIONS

- Member, American Chemical Society - 2024 - Present
- Volunteer, STEM Outreach Program - 2023 - Present

LANGUAGES

- English (Native)
- Spanish (Proficient)

ADDITIONAL INFORMATION

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

REFERENCES

AVAILABLE ON REQUEST