

Charles Lambert

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SUMMARY

Scientific Analyst with four years of industrial and **commercial laboratory experience** supporting biofuels, fermentation, pilot scale, and process development programs. Applies analytical **method development**, validation, calibration, quality control, and experimental interpretation across research and client projects. Produces traceable laboratory data through disciplined documentation, sample management, review, and safety focused execution. Troubleshoots chromatography, spectroscopy, and related **scientific instrumentation** through system suitability checks, calibration review, maintenance coordination, and diagnostic testing. Communicates findings clearly with researchers, process engineers, clients, and laboratory colleagues, turning results into practical project decisions. Provides technical guidance across concurrent studies and supports reliable analytical operations from sample preparation through reporting. Brings a steady, collaborative approach to sponsored research, commercial services, **data integrity**, and successful biofuels project delivery.

EXPERIENCE

Scientific Analyst, Fermentation Analytics

July 2024 - Present

Midwest Fermentation Analytics

Normal, Illinois

- Leads analytical execution for fermentation and biofuel development studies, supporting **pilot scale** decisions, sponsored research, commercial services, method performance, instrument reliability, and technical guidance across research and process teams.
- Coordinated pilot sample plans with research teams, producing traceable datasets for process decisions
 - Validated **fermentation** methods with controls, **calibration** standards, and repeatability assessments
 - Interpreted **chromatography** results for sponsored studies, clarifying process trends for **engineers**
 - Restored instrument reliability through **system suitability** checks and targeted diagnostic testing
 - Reviewed calculations and sample records, resolving discrepancies before commercial data release
 - Guided laboratory colleagues on safe instrument use, documentation, and quality practices

Laboratory Analyst, Process Laboratories

October 2022 - June 2024

Heartland Process Laboratories

Decatur, Illinois

- Performed industrial laboratory testing for fermentation and process development samples, supporting pilot scale campaigns, commercial analysis, quality control, safety, documentation, and dependable reporting for scientists and engineers.
- Tested fermentation samples for **process development** studies, supplying results for experimental evaluation
 - Prepared standards, reagents, controls, and samples under documented laboratory procedures
 - Maintained **chain of custody** records for commercial and internal research samples
 - Investigated atypical quality control results through repeat analysis and preparation review
 - Supported pilot campaigns with scheduled collection, rapid analysis, and organized reporting
 - Strengthened laboratory readiness through labeling, waste segregation, inventory checks, and equipment logs

PROJECTS

Pilot Scale Fermentation Analytics 📅 2025

Improved sample planning and analytical review for fermentation studies, connecting pilot scale results with process development decisions and reliable technical reporting.

Commercial Method Validation Program 📅 2024

Built documented validation workflows for feedstock and product samples, using acceptance criteria, calibration checks, controls, and repeatability review.

LEADERSHIP & AWARDS

- Technical leadership recognition for dependable analytical support across fermentation and biofuel development studies.
- Laboratory quality contribution recognition for accurate documentation, control review, and reliable commercial data delivery.
- Peer recognition for practical instrument troubleshooting and clear guidance during concurrent research projects.

EDUCATION

Bachelor's Degree in Biological Sciences

2022

Illinois State University GPA: 0

Normal, Illinois

CERTIFICATIONS

- Laboratory Safety Training 📅 2026
- Chemical Hygiene Training 📅 2026

TECHNICAL SKILLS

- **Chromatography:** Gas chromatography, liquid chromatography, chromatography data review
- **Spectroscopy:** Spectroscopy, spectral interpretation, instrument performance checks
- **Wet Chemistry:** Wet chemistry, reagent preparation, sample preparation
- **Method Development:** Analytical method development, method optimization, method transfer
- **Method Validation:** Method validation, acceptance criteria, repeatability assessment
- **Quality Control:** Quality control, control review, system suitability
- **Scientific Instruments:** Scientific instrumentation, calibration, diagnostic testing
- **Laboratory Documentation:** Laboratory records, chain of custody, technical reporting
- **Pilot Operations:** Pilot scale operations, sample collection, process development
- **Laboratory Safety:** Laboratory safety, chemical hygiene, waste segregation

SKILLS

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|------------------------------------|---------------------------------|------------------------------------|---------------------|
| • Biofuels research | • Pilot scale research | • Spectroscopy | • Data integrity |
| • Fermentation analysis | • Analytical method development | • Wet chemistry | • Quality control |
| • Industrial laboratory operations | • Method validation | • Instrument troubleshooting | • Laboratory safety |
| • Commercial analytical services | • Chromatography | • Experimental data interpretation | |

PROFESSIONAL AFFILIATIONS

- Biofuels research community, supporting fermentation analysis and process development collaboration.
- Laboratory quality and safety community, promoting careful documentation, data integrity, and safe operations.

LANGUAGES

- English (Native)
- Spanish (Beginner)

ADDITIONAL INFORMATION

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

REFERENCES

AVAILABLE ON REQUEST