JULIAN MERCER

CHEMIST

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PROFESSIONAL SUMMARY

Chemist with 6+ years in analytical method development, instrument operation, and quality testing for pharmaceutical and materials work. Delivers accurate, well-documented results under GLP and cGMP, and improves methods to shorten run times and reduce retests.

PROFESSIONAL EXPERIENCE

Analytical Chemist Mar 2022 - Present
Pfizer, Groton, CT

- Develop and validate HPLC and LC-MS methods for small-molecule release testing, supporting about 150 batch samples each quarter.
- Shortened a key assay run from 40 to 25 minutes by optimizing the gradient and column choice, saving roughly 200 instrument hours a year.
- Investigated out-of-specification results using structured root-cause reviews, reducing repeat retests by about a third.
- Wrote validation protocols and summary reports to ICH guidelines, passing internal quality audits with no major observations.
- Trained four technicians on instrument calibration and sample preparation, using written SOPs and short hands-on sessions.
- Transferred two validated methods to a manufacturing quality lab, writing transfer protocols and supporting the first three comparative runs.
- Reviewed chromatography data for peak integration and system suitability before sign-off, supporting audit-ready batch records.

Research Chemist Aug 2020 - Feb 2022
3M, St. Paul, MN

- Characterized adhesive and coating formulations with FTIR, GC-MS, and DSC, supporting product teams on three new material trials.
- Designed small experiments to compare cure conditions, identifying settings that raised peel strength by roughly 12% in lab testing.
- Maintained lab notebooks and instrument logs to a standard that supported patent filings reviewed by legal counsel.
- Introduced a shared sample tracking sheet that cut lost-sample incidents to zero over the final year in the group.
- Evaluated incoming raw-material lots against specification and recommended release or rejection with documented data.
- Calibrated and maintained shared FTIR and DSC instruments, keeping logs complete for two internal audits.
- Assisted a pilot-scale coating trial by preparing samples and recording process conditions for later analysis.

CORE SKILLS

HPLC | LC-MS | GC-MS | FTIR | Method validation | Analytical chemistry | GLP and cGMP | Sample preparation | Root-cause analysis | Statistical analysis | Chromatography software | Laboratory notebooks | Instrument calibration | SOP writing

EDUCATION

B.S. in Chemistry, Purdue University, West Lafayette, IN

CERTIFICATIONS

American Chemical Society (ACS) Member | HAZWOPER 40-Hour Certification