

James Dodsworth

Laboratory Director | Analytical Chemistry | ISO/IEC 17025 | PFAS & Cannabis Testing

Professional Summary

Senior laboratory executive with 30+ years of experience building, scaling, and leading environmental, analytical, and cannabis testing laboratories. Proven expert in ISO/IEC 17025 accreditation, PFAS analysis, cannabis compliance testing, method development, and laboratory profitability. Recognized for growing laboratory revenue, maximizing instrument uptime, training high-performing scientific teams, and delivering defensible, regulator-ready data.

Core Competencies

- Laboratory Operations & P&L Management
- ISO/IEC 17025 & A2LA Accreditation
- PFAS, Environmental & Cannabis Testing
- Method Development & Validation
- GC, GC/MS, GC/MS/MS, LC-MS/MS, ICP-MS, HPLC
- Instrument Troubleshooting & Repair
- Quality Systems (QA/QC, SOPs, Audits)
- Team Leadership, Training & Mentorship
- Capacity Expansion & Revenue Growth

Professional Experience

Cannabis/Hemp Analytical Testing and Technology Expert

Cannaspire | Phoenixville, PA | Dec 2025 - Present

- Provide Expert Witness services for cannabis/hemp testing cases
- Work with attorneys, their clients and insurance companies
- Experience conducting full laboratory buildouts.

Laboratory Director

ALS – USA Environmental | Richmond Hill, NY | Mar 2025 – Dec 2025

- Lead specialty PFAS and Volatile Air Analysis laboratory operations.
- Train and mentor a growing team of analytical chemists.
- Expanded laboratory capacity and revenue; now the largest PFAS testing lab within the ALS global network.
- Ensure regulatory compliance, data integrity, and operational excellence.

Analytical Laboratory Consultant (Self-Employed)

Mt. Olive, NJ | Feb 2020 – Present

- Provide end-to-end laboratory consulting including startup design, remediation, and optimization.
- Specialized focus on cannabis and hemp testing laboratories.
- Lead ISO/IEC 17025 accreditation, audits, and quality system development.
- Develop and validate analytical methods across HPLC, LC-MS/MS, GC-MS, GC-MS/MS, ICP-

MS, and Headspace GC/MS.

- Deliver advanced technical training and hands-on instrument troubleshooting to maximize uptime and profitability.

Chief Science Officer / Quality Director

GC Analytical | Naples, FL | Sep 2014 – Feb 2020

- Built an accredited testing laboratory for e-liquid, vaping, and marijuana industries.
- Achieved A2LA ISO/IEC 17025 accreditation across GC, GC/MS, HPLC, LC-MS/MS, IC, and Karl Fischer.
- Designed and implemented quality systems, QA/QC programs, and staff training.
- Led novel research studies related to vaping and aerosol technologies.

Senior Scientist / Technician

GenTech Scientific | Arcade, NY | Aug 2013 – Sep 2014

- Refurbished and serviced GC and GC/MS instrumentation across manufacturers.
- Trained laboratory clients in organic analysis and emerging cannabis testing applications.

Laboratory Director

Metropolitan Solutions | Jan 2013 – Aug 2013

- Built an environmental laboratory to achieve NELAP certification.

General Manager

Pace Analytical | Aug 2002 – Jul 2008

- Directed full P&L responsibility for environmental testing laboratory.
- Grew annual revenue from \$2.5M to \$6.5M over six years.
- Led operations, budgeting, staffing, and quality systems.

Lab Manager

QC Laboratories | 1996 – 2002

- Managed daily laboratory operations, QA/QC, and analytical testing programs.

Education

BS, Chemistry

West Chester University, West Chester, PA

Technical Expertise

PFAS Analysis | Environmental Testing | Cannabis & Hemp Testing | GC | GC/MS | GC/MS/MS | LC-MS/MS | ICP-MS | HPLC | Karl Fischer | Headspace GC/MS | LIMS | Agilent Platforms

Regulatory & Quality

ISO/IEC 17025 | A2LA | NELAP | FDA | Environmental Compliance | SOP Development | Validation Reports | QA/QC Audits