



Idaho State Police Forensic Services



BRITANY A. WYLIE

Forensic Scientist III

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Education:

2008 Bachelors Degree in Chemistry/Biochemistry with concentration in Forensic Science, Eastern Washington University

Certification:

April 2015 American Board of Criminalistics, Diplomate in Comprehensive Criminalistics

December 2022 Association of Firearm and Toolmark Examiners, Firearm Evidence Examination and Identification

Experience:

8/2021- present: Forensic Scientist III (Firearms Discipline Lead)
Idaho State Police Forensic Services – Coeur d'Alene Laboratory.
Duties: Firearms and Toolmark Analyst/Technical Leader, NIBIN Acquisition, NIBIN Acquisition Approved Trainer (NIBIN-NAT), ILIMS Administrator/Vendor Liaison, Urine/Blood Toxicology Analyst

2/2021- 8/2021: Forensic Services Lead worker/Supervisor
Idaho State Police Forensic Services – Coeur d'Alene Laboratory.
Duties: In addition to the duties of a Forensic Scientist 2: direct supervisor to three FS2 analysts, responsible for coordination of annual Employee Development plan and Annual evaluations.

2/2013- present: Forensic Scientist II
Idaho State Police Forensic Services – Coeur d'Alene Laboratory.
Duties: Urine/Blood Toxicology Analyst, Firearms and Toolmark Analyst, NIBIN Acquisition, NIBIN Acquisition Approved Trainer, ILIMS Administrator/Vendor Liaison

2/2011- 2/2013 Forensic Scientist I
Idaho State Police Forensic Services – Coeur d'Alene Laboratory.
Duties: Urine Toxicology Analyst

<https://isp.idaho.gov/forensics>

EQUAL OPPORTUNITY EMPLOYER

Revised 1/5/2026

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6/2009 – 2/2011 Laboratory and Operations Supervisor
Global Drug Testing Labs
Coeur d’Alene, Idaho
Duties: Urine screening analysis for common drugs of abuse

Professional Organizations; Committees; Working Groups:

Sept. 2021- Current: Regular Member- Association of Firearms and Toolmark Examiners (AFTE)

April 2018- 2021: Provisional Member- Association of Firearms and Toolmark Examiners (AFTE)

2010-2017: Associate Member – Northwest Association of Forensic Scientists (NWAFS)

Testimony:

I have testified in Idaho district court as an expert witness in Idaho relating to analysis in Firearms/Toolmarks analysis, Urine and Blood Toxicology.

Completed Casework Summaries (Past 5 years only):

Totals: 2020- 2025:

Toxicology Analysis casework: Blood: 311 cases; Urine: 97 cases
Firearms/Toolmarks casework: 342 reports completed
Technical/Administrative Case Reviews: 1,140 reports (342 Firearms)
NIBIN entries: 512 entries

Continuing Education; Association Meetings; Conferences:

2025:

- ILIMS User Group, Porter Lee Corp, Schaumburg, IL
 - Workshop: Crystal Reports, Action items, Matrix configuration
 - Workshop: Template ini and troubleshooting
 - User Group training for LIMS Administration

2024:

- A2LA Assessor Training, Meridian, ID
- Shooting Incident Reconstruction, Coeur d’Alene, ID
- Association of Firearm and Tool Mark Examiners (AFTE) Annual Technical Meeting, Anchorage, Alaska
 - Workshop: Technical Leader Round-table
 - Presentations: NIBIN Users Group
 - Multiple scientific presentations and information sessions

2023:

- Association of Firearm and Tool Mark Examiners (AFTE) Annual Technical Meeting, Austin, Texas
 - Workshop: Technical Leader Round-table
 - Presentations: NIBIN Users Group, Cadre Users’ Group
 - Multiple scientific presentations and information sessions

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2022:

- ISO 17025 Training, Seaglass Training, 32 hour Virtual course
- Cadre Forensic 3D VCM Tools and Technology webinar
- 2022 Midwest Firearms Training Seminar 8.5 hours
- 2022 Firearm and Toolmarks Policy and Practice 4-day Forum -14 total hours

2021:

- NIBIN Acquisition Train the Trainer Course, ATF, WSP Lab Cheney, WA
 - Certified as a NIBIN Authorized Trainer (NAT).
- NIBIN NAT webinar
 - Refresher with topics covering Best Practices, Training Procedures and e-Learning Tools
- Association of Firearm and Tool Mark Examiners (AFTE) Annual Technical sessions Meeting, Virtual Attendance

2020:

- Society of Forensic Toxicology (SOFT) Annual Meeting, Virtual Meeting
 - 8 hour Toxicology seminar- Cannabis
- Western Intermountain Laboratory Directors Firearms Virtual webinar
- The Center for Statistics and Applications in Forensic Evidence (CSAFE)- Firearms Workshop
 - 10 hour webinar on 3D technology in Firearms Examination
- Virtual presentation on ISPFS toxicology analysis to local Drug Recognition Experts training

2019:

- California Association of Toxicologists Fall 2019 Meeting, Ventura, California
 - 16 hour Toxicology seminar
- Bloodstain Pattern Analysis- Meridian, ID
 - 40-hour Basic Bloodstain Pattern recognition course
- NIBIN Acquisition Training, ATF, WSP Lab Cheney, WA
 - 24-hour training course on sample acquisition and entries for the NIBIN/IBIS Systems.
- Machining for Firearms/Toolmark Examiners, Precision Forensic Testing Houston, TX
 - 16-hour training course on major machining techniques used in firearms and tool manufacturing.

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- ISPFS In-house training on QToF Instrumentation and data analysis, training provided by Agilent (Instrument Manufacturer)

2018:

- Tool Mark Identification, AFTE- Forensic Education & Resource Committee, Indianapolis, IN
 - Weeklong training course covering manufacturing methods and practical exercises for tool mark comparisons.
- ILIMS User Group, Porter Lee Corp, Schaumburg, IL
 - Workshop: Crystal Reports
 - Workshop: Template ini and troubleshooting
 - User Group training for LIMS Administration
- Society of Forensic Toxicology (SOFT) Annual Meeting, Minneapolis, MN
 - Workshop: Weaving Together the Toxicologist and the Drug Recognition Expert (DRE)
 - Workshop: Defending Your Testing Services Through Testimony
 - Multiple scientific presentations and information sessions

2017:

- E102 Firearms and Toolmark Introduction I Course, California Criminalistics Institute (CCI), Rancho Cordova, CA
 - Weeklong course in ammunition history and modern manufacturing, history of firearms, overview of common examinations of firearms related evidence. Basic identification criteria and limitations were covered.
- Digital Photography Crime Scene Training Course, FBI hosted by ISPFS in Meridian, ID
 - Weeklong course on digital camera functionality and operation
 - Crime scene photography techniques and practical exercises
- ILIMS User Group, Porter Lee Corp, Schaumburg, IL
 - Workshop: Crystal Reports
 - Workshop: Template ini and troubleshooting
 - User Group training for LIMS Administration
- Association of Firearm and Tool Mark Examiners (AFTE) Annual Meeting, Denver, CO
 - Workshop: Double Casting
 - Workshop: Sub-Class and Sufficient Agreement
 - Workshop: Documentation Methods for Casework
 - Multiple scientific presentations and information sessions
- Idaho State Police Pocatello Lab Internal Audit- Toxicology Section
 - Internal Audit to assess Pocatello Lab compliance with ISO 17025 standards

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2016:

- Society of Forensic Toxicology (SOFT) Annual Meeting, Dallas, TX
 - Workshop: Opioids in DUID Investigations
 - Workshop: From the Sample Tube to the Mass Spectrometer
 - Multiple scientific presentations and information sessions
- Association of Firearm and Tool Mark Examiners (AFTE) Annual Meeting, New Orleans, Louisiana
 - Workshop: Glock Armorers Course
 - Workshop: Ring of Fire
 - Workshop: Sub-Class Characteristics
 - Workshop: Sig Sauer Classic Pistols Armorers Course
 - Workshop: Barrel Manufacturing Techniques
 - Workshop: Serial Number Restoration and Barcode Deciphering
 - Workshop: Hi-Point Familiarization/Armorers Course

2015:

- SHOT Show, Las Vegas, Nevada
- Familiarization, Maintenance and Basic Troubleshooting of Agilent 1200/6400 Series LC/MS, ISPFS Lab Coeur d'Alene, Idaho
- HPLC 1200/1260 Maintenance and Troubleshooting, Redmond Washington
- California Association of Toxicologists, Irvine, CA
 - 16-hour toxicology training seminar

2014:

- Supervisor Academy, Northwestern University/Idaho State Police POST, Meridian, Idaho
- Society of Forensic Toxicology (SOFT) Annual Meeting, Grand Rapids, Michigan
 - Workshop: Getting Excited about Stimulants
 - Workshop: LC for the Forensic Toxicologist: Answers to 101 Questions you were afraid to ask.
- Multiple scientific sessions
ASCLD/LAB Assessor Training, ASCLD/LAB and Idaho State Police, Meridian, Idaho
- Idaho State Police Pocatello Lab Internal Audit- Toxicology Section
 - Internal Audit to assess Pocatello Lab compliance with ISO 17025 standards

2013:

- Sig Sauer Classic Pistols Police Armorer's Course, Sig Sauer Academy and Sharp Shooting, Spokane, Washington
- AR15 Armorer's Course, Specialized Armament and Spokane County Sherriff, Spokane, Washington

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2012:

- Court Room Presentation of Evidence, Idaho State Police Forensic Services, Meridian, Idaho

2012 cont.

- Remington M/870 Police Armorer's Course, Remington and Kootenai County Sherriff, Coeur d'Alene, Idaho
- LC/MS/MS Instrument On-Site Application Training, Agilent Technologies, Coeur d'Alene, Idaho
- Robert F Borkenstein: The Effects of Drugs on Human Performance and Behavior Course, Presented by Indiana University, Philadelphia, PA

2011:

- Ethics in Forensic Science, West Virginia University Extended Learning Program
- Handgun Familiarity Course, Center Target Sports, Post Falls, Idaho
- 2011 Spring Continuing Education for Forensic Professional Program, New Orleans, Louisiana
 - Perspectives in Expert Testimony
 - Basic Serial Number Restoration
 - The Recognition, Detection, and Significance of Gunshot Residues
- Advanced Roadside Impaired Driving Enforcement, Idaho State Police POST, Coeur d'Alene, Idaho
Course certificate not obtained attended for information presented only.

Trainings Conducted:

- July 2021- trained two (2) NIBIN users for triaging and NIBIN Acquisitions
- November 2021- trained two (2) NIBIN users for triaging and NIBIN Acquisitions
- January 2022 - trained two (2) NIBIN users for triaging and NIBIN Acquisitions
- February 2022- trained one (1) NIBIN users for triaging and NIBIN Acquisitions
- March 2023- trained one (1) NIBIN users for triaging and NIBIN Acquisitions
- September 2023- trained two (2) NIBIN users for triaging and NIBIN Acquisitions
- October 2023- trained one (1) NIBIN users for triaging and NIBIN Acquisitions
- February 2025- Cadre Versa Training for ISPFs Latent Print analysts
- March 2025- trained two (2) NIBIN users for triaging and NIBIN Acquisitions
- April 2025- trained one (1) NIBIN users for triaging and NIBIN Acquisitions
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Validations Participation:

2025: Major participant in the Validation of the Cadre Versa Portable Scanner used for 3D acquisition of fired cartridge cases and bullets/bullet fragments, and Virtual Comparison Microscopy (VCM) in the Firearms and Toolmarks section (ISPFs FATM Analytical Methods 5 and 10).

Validations Participation cont:

2023-2024 Major participant in the Validation of the Cadre TopMatch Desktop Scanner used for 3D acquisition of fired cartridge cases, and Virtual Comparison Microscopy (VCM) in the Firearms and Toolmarks section (ISPFS FATM Analytical Methods 5 and 10)

2019-2020: Minor Participant in the Validation for use of the LC-QToF instrumentation for analysis of blood samples. Multiple Analytical Methods were validated during this project using Cayman Chemical ToxBBox, to include Multi-Drug Targeted Screening and Cannabinoids Screening. (ISPFS Analytical Methods 29 and 30).

2017: Continuation of Multi-Drug Confirmation Methods to incorporate additional compounds to confirmatory scope.

2016: Major Participant in the Validation for use of the LC/MS/MS instrumentation for analysis of Blood samples. Multiple Analytical Methods were validated during this project using Cayman Chemical ToxBBox, to include Multi-Drug Targeted Screening, Cannabinoids Screening, Multi-Drug Confirmatory Methods and Quantitative confirmation of Cannabinoids. (ISPFS Analytical Methods 25, 26, 27 and 28).
Participation included LC/MS/MS method development, validation extractions, data evaluation, validation data summaries, preparation of supporting documentation and Validation summary reports.

2015: Evaluation of Current Benzodiazepine LC/MS/MS data (ISPFS AM 13, previously AM 6.1.1), and assistance in lowering the limit of reporting for the analytical method.

2015: Participation in the Validation for the use of the LC/MS/MS instrumentation for the detection of cannabinoid compounds in blood and urine samples (ISPFS AM 14, previously AM 6.1.2).

2012: Participant in the Validation for the Use of LC/MS/MS instrumentation for the detection of benzodiazepines in blood and urine samples (ISPFS AM 13, previously AM 6.1.1).