**Name: Sherri Hughes Date of Last Update:12/02/2024 9/3/2024**

**Job Title: Forensic Scientist III**

**Indicate all disciplines in which you currently perform testing or calibration work:**

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|  | **Seized Drugs** |  |  | **Blood Alcohol (Toxicology – Testing)** |
|  | **Biology** |  |  | **Firearms/Toolmarks** |
|  | **Latent Prints (Friction Ridge)** |  |  | **Crime Scene** |
|  | **Breath Alcohol (Toxicology - Calibration)** |  |  | **Impressions (Footwear)** |

**For each discipline checked in the table above, list all categories in which you perform work:**

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| Latent Print Processing  Latent Print Examination  Footwear Intelligence  Footwear Processing  Footwear Examination |

**Education:** List all higher academic institutions attended (list high school only if no college degree has been attained)**.**

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| Institution | Dates Attended | Major | Degree Completed |
| Greenville Technical College | 2004-2006 | Biotechnology | A.S. |
| Clemson University | 2006-2008 | Genetics | B.S. |
| Clemson University | 2009-2011 | Genetics | M.S. |

**Continuing Education:**  List formal coursework, conferences, workshops, in-service and other training received applicable to past and current forensic related positions.

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| Course Title | Source of Training | Date(s) of Training |
| Examination and Comparison of Tire Track Impressions | RS&A; Christine Craig | Oct. 28-Nov. 1, 2024 |
| Fingertips: Comparing Extreme Distal Impressions | 2024 IAI Conference, Reno, NV | August 12, 2024 |
| Footwear Comparison Workshop for Beginners to Experienced Examiners | 2024 IAI Conference, Reno, NV Alicia Wilcox, Thomas College | August 13, 2024 |
| Origins of Missing and False Minutiae in Friction Ridge Impressions | 2024 IAI Conference, Reno, NV Alice White, Evolve Forensics | August 14, 2024 |
| 2024 Testimony Training/Daubert Training | Ben McGough, Alabama ADA | June 4-5, 2024 |
| 2024 PNWDIAI “Forensic Testimony Techniques” | PNWDIAI | February 5, 2024 |
| Footwear and Tiretrack Digital Superimposition | Jennifer Riedel, Oregon State Police Forensic Lab | August 8, 2023 |
| Footwear comparisons: A new on-screen comparison method for an old comparison technique (4 hours) | 2023 IAI Conference: RS&A, Jon Byrd | August 22, 2023 |
| Crease and Third Level Detail (2 hours) | 2023 IAI Conference: Unique Forensics, John Vanderkolk | August 25, 2023 |
| The Examination and Comparison of Tire Impression Evidence (4 hours) | 2023 IAI Conference: Thomas College, Alicia Wilcox | August 22, 2023 |
| Distortion Interpretation: Residue Distortion (3 hours) | 2023 IAI Conference; Evolve Forensics, Alice White | August 25, 2023 |
| Fingertips: Comparing Extreme Distal Impressions (3 hours) | 2023 IAI Conference; RS&A, Jon Stimac | August 23, 2023 |
| Ethics, Impartiality and Confidentiality (4 hours) | Anja Einseln-Seaglass Training (in-house) | May 10, 2023 |
| Root cause Analysis (6 hours) | Anja Einseln-Seaglass Training (in-house) | May 9, 2023 |
| Recover Latent Print Technology | Foster & Freeman | August 22-23, 2022 |
| Examination & Comparison of Footwear Impression Evidence (40 hours) | Leslie Hammer, Hammer Forensics | Nov. 29th-30th, Dec. 1st & 6th-8th 2021 |
| Basic Footwear Comparisons | 105th IAI Conference; Ron Smith & Assoc; Jon Byrd | August 3, 2021 |
| Footwear Examination Workshop | 105th IAI Conference; William Bodziak | August 3, 2021 |
| Forensic Image Comparison | 105th IAI Conference; FBI | August 4, 2021 |
| Orientation and Smart Searching | 105th IAI Conference; Ron Smith & Assoc; Mike Jordahl | August 4, 2021 |
| Footwear Examination Training | State of Alaska Scientific Crime Detection Lab | May 2020-present |
| Footwear Intelligence Training | State of Alaska Scientific Crime Detection Lab | January 2020-May 2020 |
| Latent Print Processing Training | State of Alaska Scientific Crime Detection Lab | July-October 2019 |
| Fingerprint Processing on Difficult Surfaces (1hr) | Texas Forensic Science Academy (online) | September 13, 2019 |
| Methods of Instruction (40 hours) | State of Alaska Department of Corrections | September 3-9, 2019 |
| DNA Mixture Analysis with ArmedXpert | Niche Vision Forensics, LLC at State of Alaska Crime Detection Laboratory | May 17-19, 2016 |
| 2016 Annual Review of DNA Data Accepted at NDIS | DOJ FBI CODIS division | February 2016 |
| Quantifiler Trio DNA Quantification and GlobalFiler PCR Amplification Kit Lecture & Teach back | Life Technology at State of Alaska Crime Detection Laboratory | March 3-5, 2015 |
| 2015 Annual Review of DNA Data Accepted at NDIS | DOJ FBI CODIS division | February 2016 |
| Hair Evaluation for DNA Analysis | West Virginia University (online) | September 2014 |
| Blood Stain Pattern Analysis I | Bevel Gardner & Associates at State of Alaska Crime Detection Laboratory | August 25-29, 2014 |
| Communication Skills, Report Writing and Courtroom Testimony for Forensic Analysis | NIJ (online) | August 2014 |
| Population Genetics and Statistics for Forensic Analysis | NIJ (online) | May 2014 |
| STR Data Analysis and Interpretation for Forensic Analysis | NIJ (online) | May 2014 |
| 2014 Annual Review of DNA Data Accepted at NDIS | DOJ FBI CODIS division | May 2014 |
| FBI New CODIS Administrator Training | 19th Annual National CODIS Conf.; Norman, OK | November 2013 |
| Promega Advanced Topics in Forensic Mixture Analysis: Statistics to Technology | International Symposium on Human Identification  Atlanta, GA | October 2013 |
| Quality Assurance Standard & Auditor Training | DOJ FBI CODIS division | June 2013 |
| 2013 Annual Review of DNA Data Accepted at NDIS | DOJ FBI CODIS division | April 2013 |
| 2012 Annual Review of DNA Data Accepted at NDIS | DOJ FBI CODIS division | January 2013 |
| CODIS 7.0 Training | DOJ FBI CODIS division | January 2013 |
| Promega Mixture Interpretation Workshop | International Symposium on Human Identification  Nashville, TN | October 2012 |
| Ethics in Forensic Science | West Virginia University (online) | October 2012 |
| Perspectives in Expert Testimony | West Virginia University (online) | July 2012 |
| Class III Police Officer Training | South Carolina Criminal Justice Academy | February 2012 |
| Emerging DNA Technology Training Workshop | Marshall University; Huntington, WV | Dec. 5-7, 2011 |
| President’s DNA Initiative, Advanced DNA Workshop | Marshall University; Huntington, WV | Nov. 14-17, 2011 |

**Testimony:** Complete the information below for testimony provided.

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| Discipline or Category of Testimony | Period of Time in Which Testimony Occurred | Approximate Number of Times Testified |
| DNA Screening | March 2017 (Kodiak), April 2017 (Juneau), November 2019 (Fairbanks) | 3 |
| Biology, Nuclear DNA | January 2019 (Anchorage), September 2019 (Greenville, SC) | 2 |
| Physical, Latent Print Processing | September 2024 (Kenai, AK) | 1 |

**Professional Affiliations:** List professional organizations of which you are or have been a member. Indicate any offices or other positions held and the date(s) of these activities.

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| Organization | Period of Membership | Offices or Positions Held/Dates |
| International Association for Identification | January 2020-present | Active Member |
| PNWD-International Association for Identification | June 2023- present | Active Member |
| IAI Footwear and Tire Track Science and Practice Subcommittee | October 2024- present | Active Member |

**Employment History:** List all scientific or technical positions held, particularly those related to forensic science. **List current position first.**

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| **Job Title** | Forensic Scientist III | **Tenure** | July 2022-present |
| **Employer** | Department of Public Safety, State of Alaska Scientific Crime Detection Laboratory; Physical section | | |
| Provide a brief description of principal duties: | | | |
| Latent Print Examination: Analyze and compare latent prints for identification purposes and perform verifications. ABIS/ WIN Latent Search Operations.  Latent Print Processing: Process a variety of physical evidence for latent friction ridge detail using physical, chemical and photographic techniques. Ridge detail is developed, documented, and digitally preserved for Latent Print Examination.  Footwear Intelligence: Search questioned footwear impressions against an online database of known footwear impressions to determine the make and model.  Footwear Processing: Process footwear evidence using various processing techniques and searching questioned footwear impressions against an online database of known footwear impressions to determine the make and model.  Footwear Examination: Examination and Comparison of crime scene footwear impressions and recovered footwear through various processing and examination techniques.  Footwear Technical Lead: November 2023 to present      Trainings: Provide training/instruction to Forensic Scientists and Law Enforcement. | | | |

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| **Job Title** | Forensic Scientist II | **Tenure** | July 2020-July 2022 |
| **Employer** | Department of Public Safety, State of Alaska Scientific Crime Detection Laboratory; Physical section | | |
| Provide a brief description of principal duties: | | | |
| Latent Print Processing: Process a variety of physical evidence for latent friction ridge detail using physical, chemical and photographic techniques. Ridge detail is developed, documented and digitally preserved for Latent Print Examination.  Footwear Intelligence: Search questioned footwear impressions against an online database of known footwear impressions to determine the make and model.  Footwear Processing: Process footwear evidence using various processing techniques and searching questioned footwear impressions against an online database of known footwear impressions to determine the make and model.  Footwear Examination: Examination and Comparison of crime scene footwear impressions and recovered footwear through various processing and examination techniques.    Trainings: Provide training/instruction to Forensic Scientists and Law Enforcement. | | | |

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| **Job Title** | Forensic Scientist I | **Tenure** | July 2019-July 2020 |
| **Employer** | Department of Public Safety, State of Alaska Scientific Crime Detection Laboratory; Physical section | | |
| Provide a brief description of principal duties: | | | |
| Latent Print Processing: Process a variety of physical evidence for latent friction ridge detail using physical, chemical and photographic techniques. Ridge detail is developed, documented and digitally preserved for Latent Print Examination. | | | |

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| **Job Title** | Research Technician II  Research Technician III  Research Technician IV/ Lab Manager | **Tenure** | September 2019-November 2020  August 2021-February 2023  May 2023-current |
| **Employer** | University of Alaska Anchorage, Dr. Duddleston | | |
| Provide a brief description of principal duties: | | | |
| Work on various grant funded research projects as directed by PI, including but not limited to DNA/RNA extractions, qPCR, PCR, ordering | | | |

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| **Job Title** | Adjunct Instructor | **Tenure** | September 2018-as needed |
| **Employer** | University of Alaska Anchorage | | |
| Provide a brief description of principal duties: | | | |
| Provide lectures and laboratory training for Experiential Learning for Genetics & Cell Biology | | | |

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| **Job Title** | Forensic Scientist III | **Tenure** | December 2015-September 2017 |
| **Employer** | Department of Public Safety, State of Alaska Scientific Crime Detection Laboratory; DNA Section | | |
| Provide a brief description of principal duties: | | | |
| DNA Screening, DNA Analysis, DNA CODIS Database | | | |

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| **Job Title** | Forensic Scientist II | **Tenure** | August 2014-December 2015 |
| **Employer** | Department of Public Safety, State of Alaska Scientific Crime Detection Laboratory; DNA Section | | |
| Provide a brief description of principal duties: | | | |
| DNA Screening, DNA Analysis, DNA CODIS Database | | | |

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| **Job Title** | DNA Analyst, CODIS Administrator | **Tenure** | August 2011-July 2014 |
| **Employer** | Greenville County DPS Forensics | | |
| Provide a brief description of principal duties: | | | |
| Biological Screening, DNA Analysis, Maintenance and Supervision of CODIS Database | | | |

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| **Job Title** | Graduate Research Scientist | **Tenure** | August 2009-August 2011 |
| **Employer** | Clemson University Genetics & Biochemistry Department | | |
| Provide a brief description of principal duties: | | | |
| Research and reporting on DNA Methylation in QTL chilling regions in *Prunus persica* | | | |

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| **Job Title** | Genetics Lab Lecturer | **Tenure** | Summer 2011 |
| **Employer** | Greenville County DPS Forensics | | |
| Provide a brief description of principal duties: | | | |
| Guest lecturer on Forensic Genetics at Greenville Tech College | | | |

**Other Qualifications:** List below all personal certifications identifying the issuing organization and the dates; all scientific publications and/or presentations you have authored or co-authored, research in which you are or have been involved, academic or other teaching positions you have held, and any other information which you consider relevant to your qualifications.

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| **Certifications:**  Certified Police Instructor, Alaska Police Standards Council – February 2021-Present    **Law Enforcement Training Provided**:  Law Enforcement Training Provided: 05/2023 – Crime Scene Photography, Physical Evidence collection, Footwear/Tire tracks, Latent Prints, ALET Academy, Sitka AK (32 hrs)  Law Enforcement Training Provided: 10/2022 – Crime Scene Photography, Physical Evidence collection, Footwear/Tire tracks, Latent Prints, ALET Academy, Sitka AK (32 hrs)  Law Enforcement Training Provided: 05/2022 – Crime Scene Photography, Physical Evidence collection, Footwear/Tire tracks, Latent Prints, ALET Academy, Sitka AK (32 hrs)    Law Enforcement Training Provided: 10/2020 – Crime Scene Photography, Physical Evidence collection, Footwear/Tire tracks, Latent Prints, ALET Academy, Sitka AK (32 hrs)    **Forensic Conferences Attended:**  108th IAI Educational Conference, Reno, Nevada; August 12-16, 2024  107th IAI Educational Conference, National Harbor, Maryland; August 20-25, 2023  105th IAI Educational Conference, Nashville TN; August 1-7, 2021    19th Annual National CODIS Conf.; Norman, OK; November 2013    International Symposium on Human Identification, Atlanta, GA; October 2013    International Symposium on Human Identification, Nashville, TN; October 2012 |