

Talia T. Martin M.S.

[REDACTED]
[REDACTED]

Personal Cell: [REDACTED]

Work Phone: [REDACTED]

Personal Cell: [REDACTED]

Work Email [REDACTED]

PROFESSIONAL SUMMARY

- 15+ years of experience in technical, professional and policy for governmental and academic programs and projects for Tribal issues
- 9 years of spectroscopy, chromatography, and molecular biology experience for structural & chemical protein analysis
- 8 years of environmental project management, supervising and training
- 10 years in environmental compliance knowledge in UST, RCRA, CERCLA federal regulations
- Skills and abilities in technical & scientific writing, communication, grant writing and training
- Proficiency in software for project management, databases, data analysis, and mapping
- Vast experience with Tribal Nations as a liaison between Tribes, federal and state agencies; tribal consultation, tribal governmental operations, policy writing

EDUCATION

MASTER OF SCIENCE IN PHARMACEUTICAL CHEMISTRY Completion: 8/1/2011
University of Kansas Hours Completed: 82, GPA 3.2/4.0
2093 Constant Ave Lawrence, KS 66047 [REDACTED]

BACHELORS OF ARTS IN CHEMISTRY Completion: 5/20/2007
University of Kansas Hours Completed: 99 GPA 3.2/4.0
1450 Jayhawk Blvd Lawrence, KS 66045 [REDACTED]

ASSOCIATES OF SCIENCE IN NATURAL SCIENCE Completion: 12/31/2003
Haskell Indian Nations University Hours Completed: 75 GPA 3.7/4.0
155 Indian Avenue Lawrence, KS 66046 [REDACTED]

PROFESSIONAL EXPERIENCE

CO-EXECUTIVE DIRECTOR, TRIBAL ENERGY ALTERNATIVES February 2023 – Current
GRID Alternatives Supervisor, Tim Sears P.E.
1034 W Ellsworth, Ave Denver, CO
[REDACTED]

- Management of program, projects and staff for solar energy installation and interconnection.
- Primary budgeter and oversight on overall affiliate office budget and accounting
- Developing and implementing relationships with Tribal Nations and Tribal Programs staff for funding, project development and assistance on solar energy projects

- Co-lead management functions of the GRID affiliate office which include operations of Board of Directors, affiliate development, and program management
- Participate in executive and leadership programs and trainings. Provide input to headquarters and regional executive directors, and coordinators
- Oversee federal grants over \$70+ million and implementation of staff, scope and projects
- Oversee people management policies and procedures, implementation and enforcement of policies by people managers in construction, federal grants, communications and outreach

DIRECTOR, TRIBAL DEPARTMENT OF ENERGY

Shoshone-Bannock Tribes
P.O. Box 306 Fort Hall, ID 83203

10/1/2016 – 1/1/2023

Supervisor: Elese Teton, P.E.



- Tribal representative on DOE Tribal working groups: Nuclear Energy Tribal Working Group (NETWG), co-chair of Tribal Issues of States and Tribes Government Working Group (STGWG), Tribal STEM Subcommittee. Member of the Idaho Clean-up Project Citizens Advisory Board. Panelist for DOE Boise's public meeting on consent-based siting in 2016, STEM Panelist at DOE Intergovernmental Meeting in 2018.
- Correspond and coordinate with tribal programs within Indian country on areas affected by DOE complex clean-up and nuclear energy issues, and STEM opportunities for workforce and K-12.
- Senior level management of 11-15 staff members and oversight of Environmental, Cultural Resources, and Energy Resources projects, budget, and deliverables.
- Program administrator, coordinator and facilitator on Agreement In Principle activities including government to government consultation, development of briefing materials for leadership, drafting official tribal government letters and comments.
- Tribal Liaison and Point of Contact for Tribes between DOE Office of Nuclear energy, Idaho operations and Nuclear Regulatory Commission regarding the Advance Reactor Projects (ARPA), Office of Environmental Management, Idaho Clean-up Project.
- Written, awarded and managed cooperative agreements and grants in excess of \$1.3 Million from U.S. DOE, \$120,000 from EPA, and \$35,000 from U.S. FWS in compliance with Office of Management and Budgets regulations
- Technical writing for development of regulatory documents for NEPA and CERCLA projects. Develop complex material for tribal, state, federal professionals, and stakeholders: fact sheets, white papers, analysis papers, presentations, strategic plans for project-specific issues, and talking points for leadership.
- Experience in grant writing & research for topics involving energy efficiency and conservation, renewable energy, and climate change analysis for tribal opportunities in education, workforce, economy, cultural and natural resources.
- Participation in STEM and education-related projects with DOE-NE, Idaho National Laboratory (Batelle Energy Alliance), education departments, and Reservation K-12 schools.

SCIENTIST, ENVIRONMENTAL WASTE MANAGEMENT

Shoshone-Bannock Tribes
P.O. Box 306 Fort Hall, ID 83203

7/1/2011 – 5/30/2015

Supervisor: Kelly Wright M.S.



- Project lead for 3 years managing EPA General Assistance Program (GAP) Environmental Field Sampling, Underground Storage Tanks assistance program. Includes managing budgets of \$25,000 for GAP and \$120,000 for UST compliance.
- Developed and conducted technical staff trainings on soil and surface water environmental sampling, UST operator training, and youth UST awareness project for the Fort Hall Reservation
- Experience in ArcGIS mapping, data analysis and visualization, data validation and verification for quality assurance in compliance with UST standards
- Experience with spreadsheet analysis and software for tracking data trends, creating database for culturally significant vegetation for risk assessment activities, and electronic data management of environmental data
- Knowledge in Resource Conservation and Recovery Act (RCRA) and Comprehensive Environmental Response, Compensation, and Liability Act (CERCLA), Underground Storage Tanks (UST) Federal Regulations as it relates to tribal environmental issues with superfund sites
- Technical advisor to program staff and leadership on Tribal Waste Permitting Program for federal and tribal regulated waste, Waste Management Act Clean-up standards, mining operations and contamination on ancestral lands.

GRADUATE RESEARCH ASSISTANT, PHARMACEUTICAL CHEMISTRY

University of Kansas
Simons Biosciences Research Laboratories
2093 Constant Ave
Lawrence, KS 66047

8/1/2007 – 8/1/2011

Supervisor: Jennifer Laurence Ph.D.



- Method development and optimization of protein synthesis and chemical and structural analysis for model pharmaceutical formulations. Spectroscopic Data collection, analysis and visualization
- Scientific presentations and meetings on reporting of data analysis and interpretation to doctoral candidates, professors, and industry representatives
- Employed analytical equipment to generate visual data from chromatographs, spectrographs, and numerical data. Trained to use Microsoft Excel, Origin 6.0, Prism 4.0, and chromatography software
- Maintaining inventory, ordering supplies, maintenance and calibrating laboratory equipment
- *Master's Thesis*: Investigation of Site-specific Changes Within the N-terminal Domain of Calmodulin and the Relationship to Structural and Thermal Stability

ACADEMIC & PROFESSIONAL DEVELOPMENT

GRID Alternatives Tribal Solar Accelerator Fund Grant Reviewer	June – Aug 2022
Certificate of Achievement Award from Shoshone-Bannock Tribes	Dec 2021
States and Tribes Government Working Group Co-Chair Tribal Issues	Nov 2020 - Feb 2023
Tribal STEM Subcommittee (DOE)	Nov 2019 - Feb 2023
Project Management Institute, Member	Oct 2019 – Feb 2024
GRID Alternatives Tribal Accelerator Solar Foundation Grant Reviewer	May 2019

National Science Foundation STEM Grant Reviewer	March 2018
NIJC Grant Writing Training	Nov 2017
DOE-EM Idaho Clean-up Project Citizens Advisory Board Member	Feb 2016 – Apr 2025
States and Tribes Government Working Group Member	Nov 2015 – Feb 2023
Nuclear Energy Tribal Working Group Member	Nov 2015 - Feb 2023
RCRA Hazardous Waste Regulations – McCoy Training	Dec 2012 & Aug 2014
40 – Hour HAZWOPER certified	June 2012 – 2014
Phase I and II Environmental Site Assessments Training	Mar 2012 – Nov 2014
Risk Assessment Training, Tetra Tech	Mar 2014
UST Regulations Inspector & Owner/Operator Training – USEPA	2012-2014
Environmental Sampling Field Course - Nielsen Field School	Feb 2012
American Chemical Society Member	Present
ASTM International Participating Member – Committee E50	Present
Madison & Lila Self Graduate Fellowship (4 years/\$164,000 Award)	Aug 2007-June 2011
Shoshone-Bannock Tribes Trust Fund Scholarship	Oct 2006
KU Women of Distinction Honor	2004-2005
Best Poster in Chemistry Award – SACNAS Conference	2003

PUBLICATIONS

Martin, T.T; Sanford, M. (2019) *The Shoshone-Bannock Tribes Lessons Learned from Advanced Nuclear Reactor Projects at the Idaho National Laboratory 2017-2021*. In Progress

Martin, T.T.; Clairmont, T.; (2018) *NETWG White Paper on Tribal Involvement in STEM Education and Workforce Development*. https://www.ncsl.org/Portals/1/Documents/energy/Tribal_Energy/NETWG_STEM_White_Paper_Final_3_0085.pdf. Accessed 3/3/2022.

Krause, M.E.; **Martin, T.T.;** and Laurence, J.S. (2012). “Mapping Site-Specific Changes That Affect Stability of the N-Terminal Domain of Calmodulin” *Mol. Pharm.* 9(4):734-43.

Peek, L.J.; **Martin, T.T.;** ElkNation, C.; Pegram, S.A.; Middaugh, C.R. (2006). “Effects of stabilizers on the destabilization of proteins upon adsorption to aluminum salt adjuvants.” *J. Pharm. Sci.* 96: 547-557.

Rexroad, J.; **Martin, T.T.;** McNeilly, D.; Godwin, S.; Middaugh, C.R. (2006). “Thermal stability of adenovirus type 2 as a function of pH.” *J. Pharm. Sci.* 95: 1469 – 1479.

SKILLS

LABORATORY

<u>Spectroscopy</u>	<u>Chromatography</u>
Solution Nuclear Magnetic Resonance (NMR)	Size-Exclusion (SEC)
Circular Dichroism (CD)	Immobilized Metal Ion Affinity (IMAC)
Intrinsic Fluorescence	Thin-layer (TLC)
UV-Visible	Fast Protein Liquid (FPLC)
	High Performance Liquid (HPLC)

<u>Protein Expression</u>	<u>General Laboratory Techniques</u>
French Pressure Cell Press	Autoclave
Ultracentrifuge	Incubator
Gel Electrophoresis	Analytical Weigh Balance
Polymerase Chain Reaction (PCR)	pH Meter
Cell Culture	Bradford Assay

FIELD

SOFTWARE

Soil Auger	Microsoft 365: Word, Excel, Powerpoint, Outlook
Soil pH/conductivity/temperature Meter	Microsoft TEAMS, Project, Visio, OneNote
X-ray Fluorescence Field Portable Analyzer	Adobe Acrobat Pro DC, Premier 2022, Photoshop 2018
Hydrolab DS5 Water Quality Sonde	Laserfiche®
Garmin GPS Unit	ArcGIS™10
	Prism GraphPad
	OriginLab® 6.0
	NITON Data Transfer

VOLUNTEER EXPERIENCE

BOISE STATE UNIVERSITY TRIBAL ADVISORY BOARD

12/1/2021 – 1/31/2023

Shoshone-Bannock Tribes
P.O. Box 306 Fort Hall, ID 83203

6 hours per month

- Co-Chair of the BSU Advisory Board, appointed by the Fort Hall Business Council
- Provide recommendations for the Tribes and BSU leadership to improve recruitment, retainment, experience for Native American students in Idaho
- Duties include Monthly calls, setting agendas, managing priorities of the board

BOARD MEMBER, CHIEF TAGHEE ELEMENTARY ACADEMY

1/1/2019 – 5/1/2024

34 South Hiline Road, Fort Hall ID 83203

8 hours per month

- Elected in 2018 to the Board of Directors, Treasurer position. My duties include assisting the Director of Programs for accounting, advising and oversight of a \$6 Million budget.
- I attend monthly meetings and provide advisement on compliance of regulations. I also learned board management and policies affecting charter schools.

- Governing the operations of the CTEA charter school for language immersion of the Shoshone and Bannock Languages. The charter school has a capacity of 210 students serving K-6 students.

TAX AIDE, AARP FOUNDATION

Shoshone-Bannock Tribes
P.O. Box 306 Fort Hall ID, 83203

1/22/2018 – 4/15/20

12 Hours per Week/6 Weeks

- Fort Hall site Tax-Aide Preparer for assisting taxpayers with low income and over age of 50. I worked to help them understand tax laws and provided recommendations to ease tax burdens.
- Averaged 8 hours/week/year for 10 weeks servicing approximately 100 tax returns. Obtained 20 hours of training for certification by AARP for tax seasons 2018 and 2019.

CO-PROJECT LEAD & STRATEGIC ADVISOR, Beyond 100Kin10

New York, New York United States

12/1/2018 – 12/31/2024

10 hours per month

- The co-lead, Melinda Higgins, and conduct bi-weekly meetings, workshops, and annual summits. Discuss barriers, adversity, inequality regarding STEM and underrepresented Tribal communities.
- In 2022, received \$13,000 grant to support continued support for development of guidance for teachers in Native American communities
- Executive Director of 100kin10, tribal staff and teachers assisted strategic advisory committee. One outcome included a published article in the Forbes Magazine in 2019, *Traditional Knowledge From The Land, For The Land: STEM Opens Doors For Native American Students*.