Tina Slowan-Pomeroy

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CAREER OVERVIEW

Experienced, self-directed higher education and public health professional with a background in science laboratory management, undergraduate biology course instruction, undergraduate research mentoring, and epidemiology. Strong leadership and relationship-building skills. Cultivates a professional atmosphere with open communication. Provides excellence through dedication to the maintenance of safe and efficient operations while supporting an environment of creativity and innovation. A demonstrated history of working in the higher education industry and in the public health field. Skilled in project management, budget analysis, customer service, laboratory safety, analytical laboratory techniques, faculty mentoring, active-learning techniques, educational pedagogy, strategic planning, biology education, online instruction, scientific research, literature review, qualitative research design, quantitative research design, editing, proofreading, data analysis, graduate research, and undergraduate research mentoring. Strong research professional with over 20 years of experience teaching biology labs- general biology, cell molecular biology, and microbiology; over six years of experience in mentoring undergraduate researchers and teaching basic bioinformatics; and over five years lecturing microbiology and general biology courses.

PROFESSIONAL HISTORY

Sierra County Public Health Department, Loyalton, CA

Epidemiologist, Part-Time; November 2023 to present

- Conducts epidemiological studies of occurrences, causes, and the public health impacts, of communicable, chronic, and emerging diseases, among residents of Sierra County.
- Performs, supervises, coordinates, and directs the collection of data work of technical and clerical support staff responsible for a variety of the most difficult and complex data analysis and specialty work of a department.
- Collects, compiles, analyzes, and evaluates data to assess the health status of the general population and specific demographic groups; explains the etiology of diseases; predicts the occurrence of communicable diseases; and develop plans and strategies to control and/or contain the distribution of communicable diseases.
- Position requires knowledge of modes of disease transmission and epidemic patterns of disease spread in the community; epidemiological features of infections significant to public health; epidemiological trends and disease patterns, their characteristics, and possible causation; design methodology and statistical methods used in epidemiological studies; use and availability of demographic data; word processing; computer programming and processing methods to generate, organize, and display complex statistical and other research data; current epidemiological and related literature; basic computer and modern office automation technology relevant to agency operations computer-based comprehensive statistics, graphics and database software.
- Prepare and assist technical staff in preparing the coordination and maintenance of data/statistics and the production of a community health assessment, special reports and department reporting through automated and manual procedures.
- Maintains confidentiality, discretion, and HIPPA guidelines.

Truckee Meadows Community College, Reno, NV

Part-Time Biology Instructor, January 2019 to present

Part-Time Laboratory Instructor, May 2002 to present

- Instruction of online, hybrid, and in-person courses for introductory biology and microbiology lecture courses with excellent student evaluation scores for explaining complex concepts clearly through activity-based learning.
- Development of new lecture activities and modification of established course materials to implement active learning techniques.
- Instruction of online, hybrid, and in-person laboratory experimental protocols for introductory biology, general biology, microbiology, and bioinformatics with excellent student evaluation scores for explaining complex techniques clearly through demonstration of laboratory procedures.
- Development of new experimental protocols and modification of established experimental protocols through current literary searches for relevant methodologies.
- Course development and implementation of in-person, hybrid, and online delivery for non-majors general biology lecture and lab classes, general microbiology lecture and lab classes, cell/molecular biology lab.
- SEA-PHAGES course development: Intended to introduce undergraduate students to authentic real-world research with focus on capture, isolation, and characterization of bacteriophages found in soil.
- Bioinformatics introduction course development: Intended to introduce undergraduate students to the basics of bioinformatics with a focus on bacteriophage genome annotation using multiple platforms data.
- Course instruction, lecture: Biology 100 – General Biology for non-majors, Biology 251 – General Microbiology, Biology 299 – Bioinformatics.
- Course instruction, laboratory: Biology 100L – General Biology for non-majors, Biology 190L – Cell and Molecular Biology, Biology 251L – General Microbiology, Nutrition 121L – Human Nutrition
- Provides a learning environment that encourages questions, participation, and supports student success.
- Ensures timely management and response to electronic correspondence from students, administrators, and other college stakeholders.
- Engages students in relevant discussion and coursework to include in-person and/or online components.
- Maintains and submits accurate and timely reports for student grades/progress.
- Attends college, departmental, and faculty meetings as scheduled.
- Remains current with trends, techniques, and advances in distance learning, active learning, and subject matter relevant to course content materials.
- Maintains confidentiality, discretion, and FERPA guidelines.

Truckee Meadows Community College, Reno, NV

Science Preparation Laboratory Coordinator, September 2014 to May 2023

- Responsible for coordinating and managing: the Science Preparatory Laboratory and Science Laboratories, lab safety policies and procedures, chemical inventory system, lab safety training program.
- Plan and manage student lab fee and instructional assistant budgets for Biology and Physical Sciences.
- Oversee the preparation of all science labs for the college; to include: two biosafety level 2 lab classrooms for microbiology and molecular cell biology, an organic chemistry lab classroom, several general chemistry and anatomy lab rooms as well as physics, engineering, nutritional sciences, organismal biology, entomology, and botany lab classrooms.
- Create and maintain tracking of all science lab courses for the college; the science prep lab supports over 220 sections of lab classes encompassing roughly 60 courses to serve over 5,100 students each year.
- Monitor equipment maintenance, safety compliance, ordering, inventory, and storage of all chemicals, biologicals, sensitive instrumentation, and supplies.
- Work directly with faculty and staff to develop and implement lab curriculum and procure new equipment and upgrade lab facilities.
- Perform and oversee the troubleshooting and analytical laboratory techniques through operation of standard molecular biology laboratory instrumentation and equipment.

- Facilitate instructors during scheduled laboratories by providing instructional and technical support.
- Mentor new instructors on laboratory technologies, equipment, and curriculum.
- Administer payroll & employee contracts for student workers, undergraduate researchers, instructional assistant, classified employees, and letter of benefits (LOB) employees for the science prep lab.
- Recruit, interview, and initiate the new hire process for employees new to the science prep lab.
- Train, supervise, and manage approximately 15 direct reports to include two lab managers as well as numerous seasonal student employees, undergraduate researchers, and instructional assistants.
- Serve as chair of search committees when hiring new science prep lab classified employees.
- Supervise employee and inter-employee relations of student workers, undergraduate researchers, instructional assistants, classified employees employees for the science prep lab.
- Create, coordinate, and maintain scheduling of employees for the science prep lab and instructional assistants specific to each semester and between semesters.
- Oversee the lab safety training of all prep lab employees to include managing required training compliance within all science labs.
- Ensure all employees and/or volunteers working in any lab classroom are lab safety compliant and complete OSHA mandated GHS laboratory training.
- Create and maintained all biohazard and chemical SOPs for handling, storage, usage, and waste disposal
- Work directly with Environmental Health and Safety for disposal of biohazardous and chemical waste.
- Develop and maintain the science prep lab website and the microbiology lab website.
- Coordinate overall laboratory safety in thirteen physical laboratory locations across three campus sites.

Truckee Meadows Community College, Reno, NV

Undergraduate Research Assistant and Mentor, September 2014 to December 2020

- Co-piloted TMCC undergraduate research program as a part of the Howard Hughes Medical Institute (HHMI) Science Education Alliance - Phage Hunters Advancing Genomics and Evolutionary Science (SEA-PHAGES) program where students were taught how to capture, isolate, identify, and characterize bacteriophages specific to *Mycobacterium smegmatis* from northern Nevada soils.
- Analysis of mycobacteriophages included using bioinformatic tools to annotate bacteriophage genomes and submit for curation to the NCBI genome database.

Truckee Meadows Community College, Reno, NV

Lab Tech II/Lab Manager – Science Preparation Laboratory, April 2006 to September 2014

- Cultivation of biosafety level 1 (BSL-1) and biosafety level 2 (BSL-2) microorganisms, used in microbiology laboratories as well as troubleshooting unexpected/aberrant microbe characteristics to preserve pure, uncontaminated cultures.
- Processing biohazardous material and biohazard waste.
- Preparation of media, reagents, indicators, and solutions for chemistry and biology lab classes.
- Ensure the set up and clean-up of all materials needed for lab experiments.
- Provide excellent customer service to include: professor/prep lab employee interactions, resolve problems, and assist instructor in labs with software issues, equipment problems, and material/equipment requests.
- Assist with maintenance of chemical inventory database systems to log chemical usage and provide accurate inventory of chemicals in various lab classrooms.
- Maintain knowledge and understanding of Safety Data Sheets (SDS) to accurately update standard operating procedures (SOPs) and train prep lab employees such that proper PPE and precautions are followed when using chemicals.
- Train new prep lab employees on proper lab techniques to include: lab safety, media preparation, solution making, equipment use, biohazardous materials use, cultivation of microbes, and cadaver maintenance.
- Ensure the preparation and delivery of all lab set-ups including all equipment, supplies, chemicals, and solutions used in all science laboratories; confirm completeness and timeliness of laboratory materials.

- Creation and maintenance of all equipment, chemical, and supply inventory lists as well as purchasing of supplies, equipment, and specimens.
- Perform analytical laboratory techniques through operation of standard molecular biology laboratory instrumentation and equipment.
- Facilitate instructors during scheduled laboratories by providing instructional and technical support.
- Assist new instructors on laboratory technologies, equipment, and curriculum.
- Orient and train instructional assistants and student workers - direct all work activities and duties.
- Development and support of the science prep lab website and the general microbiology lab website.

Truckee Meadows Community College, Reno, NV
Student Worker/Instructional Assistant, Jan. 2000 to April 2006

- Timely preparation of microorganisms, chemicals, and solutions used in science labs.
- Set up daily lab supplies and assisted instructors in microbiology and organic chemistry laboratories.
- Developed and maintained instructional websites for microbiology and nutrition laboratories incorporating html/xhtml extended markup language, digital photo microscopy, and fireworks/photoshop graphic design.

University of Nevada, Reno
Part-Time Instructor, June/July 2004; July 2005

- Instruction of introductory microbiology laboratory for high school summer workshops – Summer of Discovery and High School Medical Scholars.
- Development of new experimental protocols and modification of established experimental protocols – specifically alterations designed for abbreviated fast-paced programs.

EDUCATION

Ph.D. in Education with Science, Tech, Engineering, Math (STEM) emphasis – University of Nevada, Reno
Reno, NV. August 2022 – December 2025 (Expected Graduation Date)
Currently Enrolled (GPA – 4.0)
M.S. in Environmental Science with Environmental Toxicology emphasis – University of Nevada, Reno
Reno, NV. December 2018 (GPA – 4.0)
B.S. with distinction in Biology and Mathematics Minor – University of Nevada, Reno
Reno, NV. May 2002 (GPA – 3.65)

PUBLICATIONS

"*Pseudomonas aeruginosa strain GO33, whole genome shotgun sequencing project*", National Center for Biotechnology Information, Accession Number: VJNK00000000, July 2019.
https://www.ncbi.nlm.nih.gov/nuccore/VJNK00000000

"*Phage Diversity of Six Mycobacteriophages and Host Range of 105 Mycobacteriophages in Four Mycobacteria Including Mycobacterium tuberculosis H37Ra*," ScholarWorks, December 2018
https://scholarworks.unr.edu/handle/11714/4879

"*An inclusive Research Education Community (iREC): Impact of the SEA-PHAGES program on research outcomes and student learning*," The Proceedings of the National Academy of Sciences, December 2017
https://www.pnas.org/content/114/51/13531

"*Genome Sequences of Subcluster K5 Mycobacteriophages AlleyCat, Edugator, and Guillsminger*," American Society for Microbiology ASM Journals, November 2017
https://journals.asm.org/doi/full/10.1128/genomeA.01122-17

PROFESSSIONAL DEVELOPMENT

Tobacco Coalition and ECHO Internal Evaluator (2025)
Sierra County Hazard Mitigation Plan (HMP) Steering Committee Members (2024-2025)
R And R Studio Fundamentals certification (August 2024)
Into to Incident Command (ISC-100) certification (July 2024)
Quality Matters (QM) *Improving Your Online Course* certification (October 2023)
Collaboration, development, and implementation of active teaching techniques for integrating lecture and lab components in undergraduate microbiology course to improve student learning (2022 – 2024)
Bioinformatics T3: Train the Trainer (July 2019)
Association of College and University Educators (ACUE) certification in effective instruction (2019)
TMCC Professional Development: Workshop Leader for Creating a Graphic Syllabus (January 2019)
Maintenance of Chimera chemical inventory system for over 500 chemicals (2018 – 2022)
Laboratory Safety Institute (LSI) Two-Day Laboratory Safety Short Course (2008, 2011, 2018)
INBRE pilot grant recipient, NIH IDeA Networks of Biomedical Research Excellence (2018)
HHMI Faculty Workshop: Genome Announcements (June 2017)
Completed *Getting Results – Teaching and Learning in a Community College* program (2017)
HHMI In Silico Workshop: SEA-Phages Bioinformatics Program (December 2014)
HHMI In Situ Workshop: SEA-Phages Bacteriophage Program (July 2014)
HHMI SEAPhages project for Biology 251L and TMCC undergraduate research program (2014 – 2020)
HHMI SEA-PHAGES Faculty and Research Mentor (2014 – 2020)
Collaboration and implementation of new Science Prep Lab and Microbiology Lab website (2013 – 2023)
Collaborated with department faculty members to design a hybrid microbiology lab curriculum (2013 – 2019)
Maintenance of CISPro chemical inventory system for over 500 chemicals (2013 – 2018)
Development of over 300 SOPs for chemicals used in TMCC science laboratories (2013 – 2018)
TMCC Safety Committee Member (2012-2018)
Global Harmonized System (GHS) trained (2012)
Laboratory Safety Institute (LSI) Chemical Hygiene Officer training (2012)
Knowledge of federal and state lab safety standards – OSHA, EPA, MSDS, GHS, HMIS, NFPA (2002 – 2023)

TECHNICAL SKILLS

Microsoft 365/Office Suite: Excel, Word, PowerPoint, Teams, Outlook, OneNote, SharePoint
Adobe Suite: Acrobat, Photoshop, Dreamweaver, Fireworks
Statistical Programs: SPSS Statistics, G*Power
LMS: Workday, Canvas
Bioinformatics Analysis: Phamerator, BLAST, ClustalOmega, DNA Master, PECAAN
Website Development: HTML/XHTML code, JavaScript
Data Software: LoggerPro, Data Studio
Microscopy Imaging: Infinity Capture and Analyze
Databases: Chimera, CISPro, NCBI BLAST

References Available Upon Request