

Jennifer Marie Claypool

Assistant

The University of West Florida
Wetlands Research Laboratory

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EDUCATION

GIS Certificate, Florida Atlantic University, Boca Raton, FL 33431 May 2001
Major: Geography 12 semester hours

BS, University of West Florida, Pensacola, FL 32514 Dec. 1999
Major: Biology

EXPERIENCE

University of West Florida

Pensacola, FL

Chemist

I am responsible for the nutrients analyses in a NELAP certified lab. I accept samples, analyze water and soil samples for nutrients (anions and cations) using an automated instrument capable of running FIA (flow injection analysis) and IC (ion chromatography), plan, organize and coordinate work assignments in the chemistry department, collect, evaluate, analyze and interpret water quality data, assist the lab manager with QC/QA requirements, assist the microbiologist with fecal coliform and enterococcus testing, and maintain the lab supplies and instruments. I interact with lab personnel, university faculty, local environmental professionals, and students on a daily basis.

Magic Valley Labs

Twin Falls, ID

Analytical Chemist

Operated and maintained an atomic absorption flame and graphite furnace, prepared the metals department for inspection for drinking water certification, reduced sample processing time by two weeks, repaired equipment when needed, assisted with the initial set up of a new ICP-OES instrument, assisted with wet chemistry and nutrients when needed, assisted with sample check in and disposal when needed, streamlined data handling and sample tracking to reduce paperwork, errors and sample processing time, and trained in the microbiology department.

Idaho State University
Pocatello, ID
Teaching Assistant

Taught the introductory biology laboratory course according to the department guidelines, instructed students in the use and care of laboratory equipment, instructed students in techniques of data analysis, assisted in preparing for the lab sessions, maintained lab equipment, graded student assignments, and assisted in designing and implementing lab exercises.

Idaho State University
Pocatello, ID
Laboratory technician

Extracted DNA from animal tissues according to established protocols, amplified DNA using polymerase chain reaction (PCR), sequenced amplified DNA, analyzed the sequences with various software packages, reported results using programs such as Microsoft Excel, used and maintained lab equipment such as autoclaves, centrifuges, pH meters, thermocyclers, and spectrophotometers, employed strict quality assurance/quality control measures, used common software packages to tabulate and statistically analyze data, and researched topics related to lab work and submitted written reports.

University of North Dakota
Grand Forks, ND
Research Assistant I

Set up and maintained an environmental testing laboratory, purchased equipment and maintained a budget, operated and maintained equipment such as a gas chromatograph, precision balances, a spectrophotometer, and other standard lab equipment, assisted in designing and conducting a research project to study greenhouse gas emissions from agricultural lands, collected environmental and biological data using standard procedures, performed data entry and analysis using standard software (Microsoft Word, Excel, and Access, SASS), reported results to technical and non-technical audiences, and organized and maintained databases to store and analyze data.

University of West Florida
Pensacola, FL
Assistant in Chemistry

Employed standard methods to collect samples for monitoring of natural resources (plant and animal tissues, soil and water samples), used established protocols to extract

and isolate components of samples for analysis, used standard lab methods and equipment to analyze samples, operated and maintained sophisticated equipment such as graphite furnace AA's, a GCMS, an IC and nutrient analyzers, designed and implemented quality assurance/quality control procedures, assisted in the design of data collection, instructed students in data collection and data analysis, designed and maintained databases for data storage and analysis, modified existing lab and field methods for particular resource problems, and reported results to project leaders.

USBiosystems
Boca Raton, FL
Analytical Chemist

Tested soil, air, water, and waste samples for the presence of contaminants using a GC, maintained lab equipment, followed strict EPA and Florida state guidelines for sample handling, testing, and quality control, reported results to project managers, and repaired lab equipment.

AWARDS

National Science Foundation GK-12 Fellow – 2004-2005

Other Qualifications/Computer skills:

Microsoft Word, Excel, PowerPoint, and Access
Adobe Acrobat
Dreamweaver
SASS
ArcGIS and ArcPad
Erdas Imagine
Internet Explorer, Firefox, and Safari
Several molecular biology programs
Typing speed approximately 50 wpm
Skilled in data entry and management
Numerous software packages for analytical instruments

Laboratory skills:

Four years experience with standard lab and field equipment for sampling natural resources.

Seven years experience implementing quality assurance and quality control procedures.

Five years experience operating and maintaining water quality meters and testing kits.

Four years experience operating and maintaining gas chromatography machines.

Three years experience operating and maintaining thermocyclers, autoclaves, and centrifuges.

Two years experience using nutrient analyzers, Atomic Absorption Spectrophotometers, fluorometers, and soil carbon analyzers.

Two years experience with wet chemistry techniques for analyzing water and soil samples

Four years experience using various software packages to run analytical instruments.

Stocked and maintained three separate laboratories.

Seven years experience using software packages to compile and analyze data.