

LC WORK SCHOLARS POSITION DESCRIPTION

Work Scholar Job Title: Data/Laboratory Technician

Worksite Name: Air Chemistry Research Lab -PLMSS

Supervisor Name: Nancy Johnston Supervisor Email: najohnston@lcsc.edu

Employment Levels

<i>Entry Level</i>	<i>Intermediate Level</i>	<i>Skilled Level</i>
Characterized by highly structured tasks or outcomes, relatively low level or number of skills required, typically repetitive or routine tasks and requiring direct supervision of worker results	Involves less direct supervision than entry level, more work variety, and requires some independent exercise of judgment along with an increasing knowledge of the job.	Work is typically skilled, requires little direct supervision, requires independent judgment on procedures, has variety, includes training others, and the expectation of contributions toward improvement of the way work is carried out.

In what employment level does this position fall (underline one)?

Entry Level Intermediate Level Skilled Level

Describe the duties of this position.

Student will work in Dr. Johnston's Air Chemistry Research Lab where active research on various projects in the Valley and elsewhere are taking place. Focus is on measuring air pollution in areas of concern and reporting results to scientific community (and/or public).

One or two positions may be available - either laboratory technician and/or data technician.

Laboratory technician:

- Collect air samples on campus, and in LC valley.
- Run air samples with GC-MS instrument
- Solution prep and standardization
- Data processing of samples

Data technician:

- Quality checking raw data
- Organizing data
- Programming data to final form

Intermediate/Skilled:

- Same as above, plus data graphing, statistics and interpretation.
- Same as above, plus archiving data online
- Students may take on individualized project of study.

List the learning opportunities for this position.

Laboratory technicians will learn to operate scientific instrumentation, and basic principles of chromatography, air pollution and chemistry. Laboratory skills such as solution preparation, electronic note-booking, calibration, field sampling, and data spreadsheets are employed.

Data technician will learn and apply database language such as “R” to our air research to make databases that are archivable for other scientists to use.

Opportunity for advanced learning in data processing and interpretation, as well as possible individualized research.

What qualifications and skills are needed for this position?

- Sophomore or higher undergraduate, science major preferred.
- Non-smoker preferred, due to air system contamination problems with smoking residues.
- Good attitude to work in a team.

Lab:

- Chemistry 111/112 preferred
- Understands and is comfortable with basic math and computer entry.

Data:

- Computer Science 111 or up preferred
- Database coursework or understanding/use of R or similar language.

Lewis-Clark State College does not discriminate on the basis of race, color, religion, age, sex (including gender identity, sexual orientation, and pregnancy), national origin, physical or mental disability, protected veteran status, genetic information, or any other status protected under applicable federal, state or local law. This policy applies to all programs, services, and facilities, including applications, admissions, and employment. The Director of Human Resource Services has been designated to handle inquiries regarding nondiscrimination policies and can be reached at 208-792-2269 or in the Administration Building, Room 102, on LCSC's campus, 500 8th Avenue, Lewiston, Idaho 83501. TTY 1-800- 377-3529

Adapted with permission from Lewis-Clark Service Corps AmeriCorps and Berea College.