

# LC WORK SCHOLAR POSITION DESCRIPTION

## *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 (circle one)?

Entry Level

Intermediate Level

Skilled Level

Work Scholar job title: \_\_\_\_\_ Air Chemistry / Data Research Technician \_\_\_\_\_

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 are required for this position?**

Sophomore or higher undergraduate, science major preferred.

Lab: Chemistry 111/112 preferred

Non-smoker preferred, due to air system contamination problems with smoking residues.

Data: Computer Science 111 or up preferred

**What skills are required for this position?**

Lab: Understands and is comfortable with basic math and computer entry.

Data: Database coursework or understanding/use of R or similar language.

Good attitude to work in a team.

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