

**UTAH GEOLOGICAL SURVEY
Position Announcement**

Title: **Wetland Mapping and Field Technician**
Work Location: Utah Geological Survey, Salt Lake City, UT
Pay Rate: \$15/hour
Closing Date: Applications will be reviewed starting February 10
Employment Period : Approximately mid-March to mid-November (8 months), with potential extension depending on funding



Position Description: The Groundwater & Wetlands Program of the Utah Geological Survey seeks a technician to assist with a variety of wetland and groundwater projects. The incumbent will spend approximately 65% of their time contributing to a wetland mapping project and the remainder of their time assisting with other wetland and groundwater projects. Other projects will include (1) learning to use Google Earth Engine to calculate hydrologic variables, (2) collecting hydrologic data and performing on-site equipment maintenance as part of a study of the hydrologic impacts of large-scale environmental restoration projects, and (3) entering and quality controlling data. Wetland mapping will entail interpreting aerial imagery to identify wetlands; classifying wetlands based on vegetation, hydrologic, and geomorphologic conditions; digitizing wetland boundaries using ArcGIS; and conducting field surveys to evaluate wetland mapping. The incumbent can expect to learn photointerpretation, become comfortable identifying and classifying wetlands based on field and remote sensing characteristics, to build their skills in ArcGIS, and gain experience in hydrogeologic data collection and analysis.

The position is primarily office based, but the incumbent can expect to spend approximately 25% of their time in the field for both day trips and extended multi-day travel to remote regions of the state. Extended fieldwork will be reimbursed with a \$42/day per diem, and lodging or a camping stipend will be provided. The position is based out of Salt Lake City and housing is not provided. This position is a great opportunity to learn wetland ecology, develop expertise in wetland mapping, and gain exposure to a broad variety of wetland and groundwater research.

Qualifications:

1. Completion of at least three years of work towards a bachelor's degree in ecology, biology, geology, geography, environmental science, wetland science, or related field.
2. One season of field experience or demonstrated ability to work outdoors.

3. Coursework or demonstrated proficiency with ArcGIS. Experience with or interest in learning how to process data using Google Earth Engine
4. Willingness and ability to occasionally work long hours and unusual schedules (including overnights), drive a State of Utah vehicle, hike moderate distances through occasionally rough terrain, and tolerate exposure to extreme heat, rain, biting insects, and other field nuisances.
5. Preference given to applicants with field experience or coursework in any of the following: wetlands; hydrology; watershed science.

This position is classified as an Intern position and does not include benefits. To apply, submit resume, cover letter, and three references (with phone numbers) to Pete Goodwin at the Utah Geological Survey, pgoodwin@utah.gov. You may direct all questions to this email.