**Statement of Work**

**Types of Service Required**

Student will assist scientists with the field deployment of micrometeorological sensors and the collection of micrometerological measurements of air and surface temperature, as well as the deployment and collection of air quality metrics. Field work will occur across multiple bus stop locations in the Denver Metropolitan Area and involve working as part of a team with other students and lead research scientists. Along with field deployment and collections, students will be participating in the data management and preliminary analysis of field collected data. Data management and analysis can take place in Microsoft Office Suites, R, Python, and GIS software. Student will operate vehicles (Drivers License and defense driving training is required), handheld temperature sensors, field logbooks, computers, terminals, and peripheral data processing equipment to store, retrieve, edit, update, manipulate, and analyze recorded data or standard data bases. Student will also modify reports from other sources to fit into databases used or developed by the project. This may include changing scales and information content and reformatting tabular data. Student will develop and manage databases related to the raw data collected from the field and all associated metadata. Students will also assist scientists with statistical analyses of data, literature searches, and report writing as needed.

**Required expertise/skills**

Coursework, independent study, and/or work experience using field equipment (sensors, logbooks, protective gear), environmental science, geographic information systems (GIS) and associated data structures. Knowledge of a body of standard rules, procedures, or operations required to perform the full range of standard assignments and to resolve recurring problems. Ability to work as part of a team in the field and office. Skill in researching, organizing, and summarizing technical information and performing required calculations.

**Description of Working Conditions**

The field work will consist of teams of two driving government vehicles with field equipment to specific bus stops in the Denver Metro Area during peak commuting hours (7-10AM, 3-6PM) during the summer months of July and August. Field crews will alternate doing office work consisting of data entry, data management, preliminary analysis, and report writing. Field crews will be required to wear protective equipment and take regular breaks during the middle of the day. Office work will be performed either at home with regular Teams meetings, at facilities of the USGS Geosciences and Environmental Change Science Center at the Denver Federal Center, or in the labs of research partners at CU Denver. Work will require ingress to the Denver Federal Center building 25 and USGS computer access. Field days will require 8 hours of work with breaks during mid-day, and office work can range between 4-8 hours.