The Washington State Department of Transportation (WSDOT) has three internship opportunities in its Stormwater and Watersheds Program.  The Evergreen State College students selected for this internship will create, and QC, screen-digitized stormwater features for the Stormwater Features Inventory Database (SFID).

•             Interns will be using ArcGIS 10.2 with Workflow Manager and Data Reviewer extension.

•             Interns will be reviewing data collected by others to insure consistency and eliminate duplicates.

•             Interns will be digitizing stormwater features from georeferenced asbuilt images and data collected along state highways.

•             Interns will be researching support information and validating data.

•             Interns will be using high resolution aerial photography to confirm feature locations, and to update accuracy of existing inventory, and to set an authoritative base level of surface stormwater conveyance features for use in multiple agency databases.

•             Interns will conduct limited fieldwork using GPS and ArcPad software for data collection to help reinforce what was learned, and the work accomplished, in the office.

In the office students will use 3 pieces of GIS software: ArcGIS 10.2 , Workflow Manager, and Data Reviewer. The interns will review existing data to insure consistency, eliminate invalid attribute entry and topographical errors. Interns will use new high resolution aerial photography to update locations, eliminate duplicate features, and collect additional features. The result of the high resolution ortho digitizing in GIS will be an authoritative data set of surface stormwater conveyance features for WSDOT programs and databases.  Student will screen-digitize stormwater conveyance features from scanned and georeferenced asbuilt drawings; comparing and incorporating field collected GPS data gathered by: Stormwater Features Inventory field crews; WSDOT consultants; and WSDOT region personnel. The intern will utilize drainage structure notes, profiles, and drainage details to give supporting information about the digitized stormwater features. Additionally, digital copies of hydraulic reports will be used to assist in data validation where applicable and available.  Supporting data for each stormwater feature will be entered into SFID.

In the field students will go out with WSDOT to review previously collected stormwater conveyance data along State Highways. They will have the opportunity to: review and update data using ArcPad; take detailed field notes for data QA/QC; and interpret and assess potential Illicit connections to WSDOT’s system for further processing.  This activity will give the students a better understanding of how the GIS data is collected and how the office work ties to the field work.

Safety

Each participating intern will be held to a minimum standard of expectations as outlined in the Code of Conduct.  Interns will be conducting occasional field work to inventory stormwater features using GPS equipment.  Inventory will take place within WSDOT right of way on busy highways.  Interns will receive safety training and equipment and must follow standard WSDOT safety and field visit protocols as outlined in the pre activity safety plan developed for this work.

Essential job knowledge, skills and abilities

This internship is open to students enrolled in the Master in Environmental Studies (MES) Program, and undergrad students. Preference will be given to MES students. Other requirements include:

•             At least one college level courses in GIS preferred.

•             Ability to use a computer and meticulously process large volumes of information to produce data.

•             Ability to communicate clearly verbally and in writing in English.

•             Ability to establish and maintain effective work methods and schedules.

•             A Washington State Driver’s license is essential for this internship. Proof of possession of a valid driver’s license will be required prior to driving on state business.

This position may require occasional field work. In addition to the job functions listed above, the incumbent must be able to work outdoors in all weather conditions (e.g., hot, cold, rain, snow) for up to 8 hours a day, on uneven rough terrain, unstable ground , dense vegetation, and streams and wet areas with exposure to biting insects, common plant toxins, construction equipment, noise, and other hazards.

Internship hours of compensation and instruction

Under this task order WSDOT has up to four internships available for the upcoming summer quarter.  Interns will be expected to devote 25 hours per week to this internship, of which 19 hours will be compensated and 6 hours will be unpaid instruction.  Normal hours will be scheduled within the 7:00 am to 5:00 pm period. Office hours during the Monday through Thursday period are preferred because they overlap with the supervisor’s work schedule but work on Fridays may be acceptable once training is completed.  Scheduled hours and days may change due to project needs or workload. Interns will be compensated approximately $4,000 for the internship. The internship is anticipated to begin the week of June 27th and end September 3rd.

To participate in an internship each student must meet the following:

1.            Must be enrolled in the Master in Environmental Studies (MES) Program, Or , Undergrad student at The Evergreen State College.

2.            Approval of sponsoring professor and WSDOT Inventory Coordinator.  The sponsoring professor will be Kevin Francis, or a professor acceptable to both WSDOT and TESC program; and a professor acceptable to both WSDOT and TESC for the undergraduate students.

4.            In order for the fieldwork to be performed, some of the students will be required to drive WSDOT vehicles. All students who will be driving shall possess a valid driver’s license.  Each student shall be required to provide proof of a valid driver’s license before being allowed to drive on WSDOT business.

**How to apply**: Mail or email your resume by June 3rd, 2016.  Include a summary of relevant education and experience and provide contact information for three references.

Send to:

WSDOT Environmental Services Office

Attn:  Cory Simon

P.O. Box 47332

Olympia, WA 98504

OR;

Simonc@wsdot.wa.gov