2016 Research Internship Summer Program
Research, Development, and Technology Transfer Program

POSITION 09: ADA CONDITION ASSESSMENT TOOL RESEARCH

Description

The objective of the project is to allow undergraduate and/or graduate students to understand and learn about the Americans with Disabilities Act (ADA) Standards and the Proposed Public Rights-of-Way Accessibility Guidelines. Students will learn how to scope and evaluate sidewalks and intersections for accessibility issues. In addition, students will learn and evaluate DDOT’s ADA Condition Assessment Tool, database, and functions.

Some of the task to be performed by the interns within their timeframe will be:
• Collect and Evaluate Assets for ADA Compliance using Street Imagery and GIS Technology. Assets such as:
  o Sidewalk
  o Curb ramps
  o Bus stops
  o Crosswalks
  o Protruding objects within Pedestrian Access Route
  o Pedestrian Signal Devices
• Determine if the assets are compliant or non-compliant based on the attributes from street imagery and field assessment (if necessary)
• Develop a Prioritization Matrix for non-compliant assets.
• Develop an estimate for type of non-compliance.

The intern’s manager will provide training on accessibility evaluation, how to use the Data Collection Software, and a construction site visit.
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For conclusion the interns will present their findings from the data collection, determine how to improve the Condition Assessment Tool, will develop a Prioritization Matrix. DDOT will have a full inventory of barriers to report to FHWA on the ADA Transition Plan Update.

Intern Skills:

• GIS Software (Full knowledge)
• Engineering background (Civil / Mechanical)
• Full knowledge on Microsoft Suite (Excel & Access)
• Undergraduate Students level or higher (graduate students with concentration on Transportation)