

POSITION ANNOUNCEMENT

POSITION	Soil Science PhD Graduate Research Assistant, 0.5 time Stormwater Pollutant Control
LOCATION	Department of Crop and Soil Sciences North Carolina State University Raleigh, NC 27695-7620
JOB RESPONSIBILITIES	Dry detention basins (DDB) are prevalent stormwater practices for North Carolina's highway system, with at least 84 currently maintained by NC DOT. These basins were designed for one purpose: flood mitigation. Although it is generally accepted that dry detention basins do not substantially improve water quality, it is possible that modifications could enhance the ability of these simple practices to treat to a higher water quality standard. This study will determine the effectiveness of DDBs in pollutant (sediment, nutrients, metals) removal when modified with different configurations. These will include different baffles to improve flow characteristics, surface and bottom outlets, and a gravel bed with an underdrain. Additional experimentation to elucidate mechanisms will also be included. The student will be part of a team which will also be evaluating existing DDBs for pollutant removal efficiencies. The project is a collaboration between NC DOT and the Departments of Agricultural & Biological Engineering and Crop and Soil Sciences.
QUALIFICATIONS	M.S. degree in environmental, soil science, engineering or related fields of study
STIPEND AND FEES	Annual stipend is \$25,000 plus tuition and health insurance covered by the Graduate Student Support Plan
HOW TO APPLY	Applications for all graduate degree programs are submitted online through the NC State Graduate School (https://projects.ncsu.edu/grad/applygrad.htm) For further detail about the position contact Dr. Richard A. McLaughlin Professor in Soil Science North Carolina State University Department of Crop and Soil Sciences E-mail: rich_mclaughlin@ncsu.edu
DATE AVAILABLE	Spring 2018 semester or until the position is filled

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