Soil Science

Soil scientists study and manage land and water resources to protect the environment and enhance agricultural productivity. Graduate education opportunities in soil science at NC State prepares students for careers with public and private organizations in soil, agricultural, environmental, and natural resource sciences. Our graduates find employment opportunities with private sector firms, government organizations, academia, and entrepreneurship.

You will have the opportunity to study and do research with world-class faculty in outstanding laboratory and field facilities. Graduate students may specialize in the following sub-disciplines: soil physics; soil chemistry; soil microbiology and biochemistry; soil fertility and plant nutrition; soil genesis, morphology and classification; and soil, water and land management and conservation. Students can also incorporate other disciplines into their work, presenting outstanding opportunities to focus on issues of interest.

Admission requirements: A minimum of a 3.0 GPA at the baccalaureate (BS) or master’s (MS) level is required. However, exceptions may be made for master’s applicants with a very strong GPA in science classes or their final two years, or with substantial post-baccalaureate work experience. Students accepted will typically have a BS or MS degree in soil science, or closely related fields, with strong preparation in the biological and physical sciences.

To ensure that all graduates are well founded in all aspects of soil sciences, students are expected to acquire competence through coursework in the following sub-disciplines (four for Master’s and all five for Ph.D. programs): soil physics, soil chemistry, soil microbiology, soil genesis and classification, and soil fertility.

Degrees
- Soil Science (MR) (http://catalog.ncsu.edu/graduate/agriculture-life-sciences/soil-science/soil-science-mr/)
- Soil Science (MS) (http://catalog.ncsu.edu/graduate/agriculture-life-sciences/soil-science/soil-science-ms/)
- Soil Science (PhD) (http://catalog.ncsu.edu/graduate/agriculture-life-sciences/soil-science/soil-science-phd/)
- Soil Science (Minor) (http://catalog.ncsu.edu/graduate/agriculture-life-sciences/soil-science/soil-science-minor/)

Faculty

Full Professors
- Aziz Amoozegar
- Stephen W. Broome
- David A. Crouse
- Owen W. Duckworth
- Alan J. Franzlubbers
- John L. Havlin
- Joshua L. Heitman
- Dean L. Hesterberg
- Richard A. McLaughlin
- Michael D. Mullen
- Deanna L. Osmond
- Wei Shi
- Michael J. Vepraskas

Associate Professors
- Alexandria K. Graves
- Jeffrey G. White

Assistant Professors
- Kevin Garcia
- Terrence G. Gardner
- Luciano C. Gatiboni
- Amy M. Johnson
- Stephanie B. Kulesza
- Matthew C. Ricker
- Alex L. Woodley

Emeritus Faculty
- Stanley W. Buol
- Keith Cassel
- Maurice Cook
- Fred Cox
- Carl Crozier
- George Cummings
- J. Wendell Gilliam
- Daniel Israel
- Joseph Kleiss
- David Lindbo
- Gordon Miner
- George C. Naderman Jr.
- Wayne Robarge
- Thomas J. Smyth
- Richard Volk
- Michael Wagger
- Arthur Wollum