

Gary D. Coleman
Associate Professor
Plant Science and Landscape Architecture
University of Maryland,
College Park, MD 20742

Education and Experience

Ph.D. 1989 Horticulture-Forestry, University of Nebraska, Lincoln, NE
M.S. 1986 Forest Genetics, Colorado State University, Fort Collins, CO
B.S. 1978 Forest Biology, Colorado State University, Fort Collins, CO
Associate Professor, University of Maryland, College Park, MD (2002-current)
Assistant Professor, University of Maryland, College Park, MD (1995 to 2002)
Postdoctoral Research Associate, Oregon State University, Corvallis, OR (1990 to 1995)
Graduate Research Assistant, University of Nebraska, Lincoln, NE (1987-1989)
Graduate Research Assistant, Colorado State University, Fort Collins, CO (1984 to 1986)
Research Biologist, Uniscope Inc. Johnstown, CO (1978-1984)
Forester, United States Forest Service, Rio Grande National Forest, Del Norte, CO (1975-1977)

Research Interests

My research is focused on understanding the biology of tree growth and development. Projects are focused on understanding the nature of adaptive responses of deciduous trees associated with seasonal transitions in growth. Research is focused on two primary areas in my lab. The first area includes fundamental research directed at identifying the regulatory mechanisms of vegetative bud dormancy. The second area is focused on unraveling the regulatory mechanisms that control nitrogen remobilization, storage and use-efficiency. My lab uses Poplar (*Populus*) as a model system and integrates molecular biology, genomics, proteomics, metabolism, and physiological approaches.

Recent Grant Funding

Role of a FLC-like MADS Box Gene in Poplar Vegetative Bud Development and Dormancy. Principal Investigator: G.D. Coleman. Supporting Agency: **National Research Initiative Competitive Grants Program**, United States Department of Agriculture. Project dates: 2007-2010. Award amount: \$ \$391,245.

An Integrative Study of Nitrogen Cycling and Storage in Poplar. Principal Investigator: G.D. Coleman. Supporting Agency: **National Science Foundation**. Project dates: 2009-2013. Award amount: \$3,230,632.