



MS/PhD Description – Water Resource Benefits of Regenerative Ag Practices

LOCATION: Oklahoma State University, Stillwater, OK

EFFECTIVE DATE: Summer/Fall 2022

RESPONSIBILITIES: The student will work collaboratively with Dr. Kevin Wagner and other faculty at Oklahoma State University, Texas A&M University, Texas Tech University, and West Texas A&M University on a USDA National Institute of Food and Agriculture funded project to evaluate the impact of regenerative agricultural practices including cover cropping, crop rotation, no-tillage, and prescriptive grazing on soil, water, crop yields, greenhouse gases, carbon sequestration, and economics. Our goal is to intensify agricultural production while simultaneously maximizing ecosystem benefits and environmental sustainability.

We are seeking a graduate student that will focus on evaluating the impacts of the regenerative agricultural practices mentioned above on surface runoff water quality and quantity in southwestern Oklahoma. The student will be responsible for assisting in site maintenance, data collection, maintaining automated samplers, and preparing runoff samples for nutrient and sediment tests. In addition to field work, the student is expected to analyze data and interpret results, present at local, regional, and national meetings, and prepare manuscripts for publications in peer-reviewed journals. The research from this project will help to inform producers on cost-effective and environmentally friendly practices to enhance water and other natural resources on their properties.

STIPEND AND QUALIFICATIONS: Applicants will possess a B.S. and/or M.S. degree in Environmental Science, Biology, Plant and Soil Sciences, Water Resources Management, Biosystems and Agricultural Engineering, or a related field. This position requires a moderate degree of physical labor and strong attention to detail. The applicant will also be expected to possess a driver's license and be comfortable working both independently and in a team environment. Effective written and oral communication skills are also required. Preference will be given to those with field experience working with water quality sondes/automated samplers, experience with statistical analysis using programs such as SAS, SigmaPlot, or R, and those that have worked in agricultural production. Admission to Oklahoma State University is required. Requirements for admission to Oklahoma State can be found at (<https://gradcollege.okstate.edu/application-process/index.html>). This graduate research assistantship includes a monthly stipend and tuition and fee waivers. A student health insurance plan is also included.

RESPOND BY: Sending a cover letter describing research interests and experience, resume or CV, academic writing sample, and the names and contact information of three references to:

Dr. Kevin Wagner
kevin.wagner@okstate.edu
245 Ag Hall
Stillwater, OK 74059

DEADLINE OF APPLICATION: 2/15/2022