*Post-doc research opportunity in climate smart agriculture with a focus*

*on nitrous oxide*

**Location**

Jonesboro, AR in collaboration with USDA-ARS-Delta Water Management Research Unit (https://www.ars.usda.gov/southeast-area/jonesboro-ar/delta-water-management-research/)

**Summary of Job Duties**

Research projects will be conducted in irrigated agricultural fields in the Lower Mississippi River Basin. The project will investigate the impacts of innovative water and crop management practices on greenhouse gas emissions, yield, and grain quality. The project will use but is not limited to the eddy covariance method to quantify greenhouse gas emissions from fields. The project will focus on the measurements and modeling of nitrous oxide at the field scale.

**Minimum qualification**

PhD in related discipline. Experience with agricultural systems, environmental sciences, and/or micrometeorological systems.

Does this job require any US driver’s license: Yes

Does this job require US citizenship: Yes

Does this job require COVID-19 vaccination: Yes

**Preferred qualifications**

Ability to use SAS, MS EXCEL, R and Matlab software for data analysis. Experience in data management especially with post-processing and presenting eddy covariance data.

**Specific duties**

*Responsibility/Duty:*

Conduct field measurements and analyses of GHG fluxes, analyze experimental data using advanced statistical procedures, systematically manage meteorological and eddy covariance data, and able to oversee maintenance of two eddy covariance systems. Deploy and troubleshoot two TGA200A (<https://www.campbellsci.com/tga200a>) sensors in production fields. Actively engage with members of an interdisciplinary scientific research group.

Percent of total time: 85

Is this Duty Essential? Yes

*Responsibility/Duty:*

Write peer-review scientific journals articles, summary of progress report and present findings at conferences or scientific meetings.

Percent of total time: 15

Is this Duty Essential? Yes

**Next Step**

Send resume/CV and unofficial transcripts to Dr. Michele Reba, USDA-ARS-DWMRU at michele.reba@usda.gov