



December 30th, 2021

**Announcement:** The Global Rivers Group at Texas A&M University is seeking a PhD student to start Fall 2022. The position is fully funded through an NSF CAREER Award. Tuition, student fees, and a stipend are all covered for 5 years, contingent on good progress. The student will work on a project focused on improving representations of fluvial geomorphology and hydrology across scales. This project involves summer fieldwork in mountainous regions in Colorado and Costa Rica. The student will receive training in geospatial analysis, remote sensing data processing, and science communication. This position also includes community engagement and undergraduate student mentorship responsibilities.

**Scientific Motivation:** Rivers are natural hotspots for greenhouse gas emissions and are included in global carbon budget evaluations. The amount of greenhouse gas emitted by rivers is uncertain in part due to a fundamental gap in the current understanding of hydraulic scaling between small streams and large rivers. This project will develop a predictive understanding of how geomorphic and hydrologic processes combine to drive river-atmosphere interface dynamics across spatial and temporal scales. It will test underlying assumptions involved in estimating the global surface area of Earth's rivers and streams and it will be used to more accurately estimate the global rates of greenhouse gas emissions from inland waters.

**Eligibility and Application:** Ideal candidates for this position are motivated, organized, possess excellent communication skills (written and oral), and are capable of leading physically demanding fieldwork in steep, mountainous areas. Strong logic/programming skills are also highly valued. The Global Rivers Group maintains a productive, diverse and inclusive working environment, and we strongly encourage individuals from under-represented groups to apply.

Review of applications will begin on **February 1st, 2022**.

The application involves the submission of a personal statement, 3 letters of reference, and unofficial undergraduate/graduate transcripts. The GRE exam is no longer required (or accepted) to apply. If you plan on submitting an application, please send an email to **Dr. George Allen** at [geoallen@tamu.edu](mailto:geoallen@tamu.edu) letting him know that you plan to apply. He would also be happy to answer any questions.

**Relevant Links:**

NSF CAREER Award: [www.nsf.gov/awardsearch/showAward?AWD\\_ID=2145628](http://www.nsf.gov/awardsearch/showAward?AWD_ID=2145628)

Global Rivers Group website: [www.globalriversgroup.com](http://www.globalriversgroup.com)

Texas A&M Geography: [geography.tamu.edu](http://geography.tamu.edu)

Application info: <https://geography.tamu.edu/graduate-student-resources/application-process/index.html>

(note: please disregard the stated application deadline of January 1st, it does not apply to this position)