

Ph.D. Opportunity: Enhanced Weathering and River Carbon Cycling

NSF CAREER-FUNDED | FIVE YEARS OF SUPPORT

Expected start: Fall 2027

Join the CACEE Lab at Texas A&M University in an NSF CAREER-funded project developing a large-scale river network model to track the downstream fate of carbon and alkalinity generated by terrestrial enhanced weathering. The project integrates river and watershed datasets, machine learning, soil reactive transport modeling, and river biogeochemistry across the contiguous United States.

Preferred background

- B.S. or M.S. in geochemistry, hydrology, hydrogeology, environmental science, oceanography, or a related field.
- Interest in Earth-surface processes, low-temperature geochemistry, carbon cycling, numerical modeling and data science.
- Programming experience (Julia, Python, R) is preferred.



Lab + application info

caceelab.space/opportunities

Interested?

Email Dr. Shuang Zhang (shuang-zhang@tamu.edu) with your CV and a brief description of your research interests.