

NSF-REU UNDERGRADUATE RESEARCH OPPORTUNITIES SUMMER 2021

The Keck Geology Consortium announces the following projects for SUMMER 2021 and encourages students to review the projects on our website: keckgeology.org. All project dates are tentative (please check website for updates). Application instructions are on the website.

APPLICATION DEADLINE: 15 FEBRUARY 2021

2021 Gateway Research Projects*

(for rising sophomores with interest in science)

BIOGEOCHEMICAL CONTROLS ON NATURAL AND ANTHROPOGENIC GROUNDWATER CONTAMINANTS IN CALIFORNIA'S CENTRAL VALLEY

Dr. Brady Ziegler (Trinity University) and Dr. Aric Mine (California State University, Fresno); 8 students; July 5 – August 6, 2021

THERMAL IMAGING TO CHARACTERIZE THE SPATIAL DISTRIBUTION OF TEMPERATURE IN FRESHWATER SPRINGS

Dr. Sue Swanson (Beloit College); 4 students; July 5 – August 6, 2021

CARBON SEQUESTRATION BY ENHANCED SILICATE WEATHERING IN AGRICULTURAL SOILS

Dr. Dan Maxbauer (Carleton College); 4 students; July 5 – August 6, 2021

RISING WATERS, SHRINKING HABITATS: THE INFLUENCE OF FLUCTUATING WATER LEVELS ON THE GEOLOGY AND ECOLOGY OF A GREAT LAKES ARCHIPELAGO

Dr. Kim Diver (Wesleyan University); 4 students; June 28 – July 30, 2021

USING THE GEOCHEMISTRY OF SEDIMENTS (AND METASEDIMENTS) AS WINDOWS INTO THE EVOLUTION OF ANCIENT AND MODERN MOUNTAIN RANGES

Dr. Zeb Page and Dr. Rebecca VanderLeest (Oberlin College); 8 students; July 5 – August 6, 2021

2021-22 Advanced Research Projects*

(for rising seniors majoring in the earth sciences)

ASSESSING GROUND AND SURFACE WATER QUALITY IN THE SHENANDOAH VALLEY, VIRGINIA

Dr. Margaret Anne G. Hinkle and Dr. Eva Lyon (Washington & Lee University); 8 students; June 16 – July 14, 2021

**The projects planned for 2021-22 are specially designed to maximize safety, learning, and flexibility during the COVID-19 pandemic. Please be aware that the detailed nature and timing of some research activities will be adjusted based on evolving recommendations by federal, state, and academic institutions.*

The Keck Geology Consortium encourages applications from students from non-majority groups. See keckgeology.org or contact us at info@keckgeology.org for further information