The Ecosystem & Soil Microbial Processes Lab led by Dr. Pete Homyak in the Department of Environmental Sciences at UC-Riverside is accepting applications for students interested in pursuing a Ph.D. We research how soil microbial and abiotic processes control the exchange of elements such as N, P, and C across the soil–water–atmosphere interfaces to infer how anthropogenic disturbances and changes in global climate may alter ecosystem biogeochemistry and function. Several field sites are available to develop projects including sites in the Sierra Nevada along an elevation gradient, several chaparral sites along an atmospheric nitrogen deposition gradient, a rainfall manipulation experiment in Pinyon-Juniper woodland, recently burned chaparral sites across California, and high-temperature agroecosystems. Several novel tools are available in the lab to develop research projects including $\delta^{13}C$-CO_2/CH_4 and N_2O isotopomer trace gas analyzers, LI-COR automated soil flux chambers, and instruments in FIRMS (https://ccb.ucr.edu/facilities/firms) and the ESRL (https://envisci.ucr.edu/research/environmental-sciences-research-laboratory-esrl).

The priority application deadline is December 1st, though applications will continue to be accepted through January 5th (http://graduate.ucr.edu/app_deadlines.html). Competitive candidates will have a B.S. and/or M.S. degree in soil science, microbiology, environmental science, ecology, or a closely related discipline. They will also have strong written and oral communication skills and evidence of scholastic success. Funding will be available from a variety of sources, including fellowships, research assistantships, and teaching assistantships. **Before applying, please send your CV and short summary (no more than 1-page) of your research interests and why our lab is the right place to pursue those research interests to Pete Homyak** (phomyak@ucr.edu).

For more information please visit https://envisci.ucr.edu/faculty/homyak.html

The University of California is an Equal Opportunity / Affirmative Action Employer with a strong institutional commitment to the achievement of excellence and diversity among its faculty and staff. All qualified applicants will receive consideration for employment without regard to race, color, religion, sex, sexual orientation, gender identity, national origin, age, disability, protected veteran status, or any other characteristic protected by law. UCR is a world-class research university with an exceptionally diverse undergraduate student body. Its mission is explicitly linked to providing routes to educational success for underrepresented and first-generation college students.

UCR is located within one hour of downtown Los Angeles, a city that provides world-class cultural opportunities. Riverside also provides access to numerous outdoor recreational areas, including forest, alpine, ocean, and desert environments.