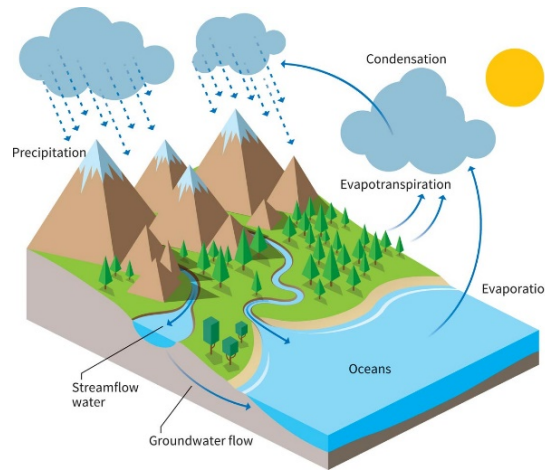


INTRODUCTION

The **2022 Environmental Science Education: Hydrology and GIS Workshop** at UCR will focus on educating credentialed high school and pre-service STEM teachers with the *pedagogy and techniques to integrate scientific contents related to water resources and GIS in their classrooms.*

The workshop, funded by the National Science Foundation and co-sponsored by the UCR CalTEACH- Science Mathematics Institute (SMI), is led by Professor Hoori Ajami with the aim of *integrating knowledge from chemistry, physics, and mathematical sciences in problem solving and interpretation of issues in water resources.* Participants who complete the workshop *will be provided with teaching materials necessary for transferring their knowledge into their classrooms.*

These resources cover important materials related to hydrologic cycle, groundwater recharge processes and water management.



ANTICIPATED OUTCOMES

Participants can expect to

- Learn about physical principles governing water balance;
- Learn on the use of GIS data and maps in teaching science;
- Gain skills in applying knowledge from physics and mathematics for problem solving in water resources.

ENVIRONMENTAL SCIENCE EDUCATION: HYDROLOGY AND GIS WORKSHOP

Dates:

July 27-29, 2022

Time:

10:00 am-4:00 pm (Instruction and Group Work)

Location:

UC Riverside Campus

Eligible Applicants:

Completion of EDUC 3
Updated SMI program plan
Completion of CBEST

Participation Stipend

\$500 upon completion



National Science Foundation
WHERE DISCOVERIES BEGIN

APPLICATION- Please answer the following questions to assist the selection process:

Applicant's Full Name/UCR Student ID:

Cumulative GPA:

Major:

Expected Graduation Date:

e-mail:

1. Briefly describe your interest in the workshop and include how your background and future career vision relate to the goals of this workshop.

2. Do you plan to teach science or math?

3. Briefly describe your experience in developing lesson plans. What have you learned to be effective or not in this process.

4. In which additional teaching enrichment programs have you participated in?

Application Deadline:

June 17, 2022

To apply for this workshop, fill out and email the application form to Prof. Ajami (hooria@ucr.edu) by June 17, 2022.

Questions: Contact Prof. Ajami (hooria@ucr.edu)