

## Postdoctoral Scholar Position in Large-Scale Hydrologic Modeling

The School of Sustainable Engineering and the Built Environment (SSEBE) at Arizona State University (ASU) seeks outstanding applicants for a postdoctoral scholar position. The postdoctoral scholar will be part of a team of three faculty members and two Ph.D. students that are interacting with water managers and decision makers in the Colorado River.

The successful candidate will work under a project funded by the National Aeronautics and Space Administration (NASA) entitled: *“Averting Drought Shortages in the Colorado River: Transitioning Long-Range, Data-Infused Scenario Modeling to Operations of the Central Arizona Project”*. Specifically, the postdoctoral scholar will be focused on large-scale hydrologic modeling of the Colorado River with the Variable Infiltration Capacity (VIC) model. It is expected that the candidates should have: (i) abilities in processing and organizing large spatiotemporal data sets of hydrometeorological variables and terrain properties; (ii) strong statistical skills to process model outputs from multiple scenarios and make inferences on system behavior under imposed land cover and climate changes; and (iii) strong written and oral communication skills for developing technical reports, presentations and scientific papers. It is also desirable that the candidates have familiarity with the use of high-performance computing resources.

The review of applications will begin immediately as they are received. To receive full and timely consideration, applications should be submitted prior to **December 10, 2019**. The anticipated start date is January 2020.

### Required Qualifications:

- PhD degree in hydrology, engineering, applied mathematics or closely related areas.

### To apply:

Please submit a single PDF file to [Giuseppe.mascaro@asu.edu](mailto:Giuseppe.mascaro@asu.edu) that includes:

- Current Curriculum Vitae with a list of publications
- Statement describing how the candidate’s previous experiences fit the desired skills for this position
- Contact information for three references.

In addition to working on the project funded by NASA, the successful candidate will support the mission of the Ira A. Fulton Schools of Engineering, and is encouraged to participate in interdisciplinary research both within the Fulton Schools and across campus. SSEBE has 52 tenured and tenure-track faculty members, approximately 1300 undergraduate and 400 graduate students, and generates annual research expenditures in excess of \$18 million per year. The School is home to several key academic programs at the undergraduate and graduate levels: Civil, Environmental, and Sustainable Engineering; Environmental Engineering; Construction Management; and Construction Engineering.

Arizona State University is a VEVRAA Federal Contractor and an Equal Opportunity/Affirmative Action Employer. All qualified applicants will be considered without regard to race, color, sex, religion, national origin, disability, protected veteran status, or any other basis protected by law. See ASU's full non-discrimination statement (ACD 401) at <https://www.asu.edu/aad/manuals/acd/acd401.html> and the Title IX statement at <https://www.asu.edu/titleIX>.

In compliance with federal law, ASU prepares an annual report on campus security and fire safety programs and resources. ASU's Annual Security and Fire Safety Report is available online at <https://www.asu.edu/police/PDFs/ASU-Clery-Report.pdf> You may request a hard copy of the report by contacting the ASU Police Department at (480) 965-3456.