

HRC Hydrometeorologist

Founded in 1993, Hydrologic Research Center (HRC) is a public non-profit research, technology transfer, and training organization, dedicated to the development of effective and sustainable solutions to global water issues. HRC's mission is to advance the science and engineering of hydrology and allied water sciences through research and development work, and to provide operations, technology transfer and training services that infuse science, engineering and decision theory into water resources management and hazard risk decision-making. At present HRC operational systems support hydrometeorological forecasters in more than 70 countries, serving about 3 billion people worldwide. Please visit the HRC website for more details: <https://www.hrcwater.org>.

Job Description

HRC has an opening for a research scientist specializing in hydrometeorology to join our interdisciplinary team. We are seeking a detail-oriented, innovative individual who is motivated to apply their knowledge to solving complex problems in hydrometeorology and water resources. The successful candidate will participate in various programs ranging from scientific research to real-world applications addressing climate, water resources, hydrology, flooding, and flash flooding issues worldwide. Ongoing work at HRC involves real-time implementation and validation of numerical weather prediction models for flood and flash flood warning applications, assessments of impacts of climatic variability and change on flash flood regimes and water resources over large river basins, development of strategies for flood mitigation and water resource management, and associated training of field personnel of national meteorological and hydrological agencies, disaster management agencies, and water resource management agencies across the world. The ability to work productively within a multidisciplinary team is a key requirement.

Specific Requirements

- A Ph.D. degree in atmospheric science, meteorology, hydrology or other closely related field.
- Demonstrated ability to develop, parameterize, and perform sensitivity analyses using regional numerical weather prediction (NWP) models (e.g., WRF) in various regions and climates.
- Demonstrated ability to perform analysis of NWP model output, verification against observational datasets, and assessment of characteristics of model uncertainties relevant to providing input to hydrologic and hydraulic models.
- A strong background in analysis of large atmospheric, hydrologic, and climatic datasets (either observational or model-derived) using statistical and geospatial analysis methods.
- Experience with application and parameterization of hydrologic models is desired.
- Experience with programming languages, particularly Matlab, Python, C, or Fortran is desired.
- Experience with Geographic Information Systems for quantitative spatial analysis is beneficial.
- Interest in developing research proposals to pursue funding opportunities in collaboration with HRC scientists is beneficial.
- Ability to work with multidisciplinary teams of scientists and engineers.
- Ability to communicate analysis results to non-technical audiences in the form of technical reports, training materials, and presentations.
- Ability to write peer-reviewed scientific papers and other technical communications.
- Ability to travel within the United States and internationally.

Additional Information and Instructions:

HRC's office is located in San Diego, California. All staff are currently working remotely but with regular in-person group meetings.

Salary is commensurate with qualifications and experience. Salary range is \$74,000 to \$82,000. HRC provides a competitive benefits program including retirement, medical, dental and vision plans and paid vacations, holidays and sick leave.

Candidates should email a cover letter highlighting the reasons for their interest in the position, their current CV, and the names of three references that are familiar with the candidate's past work to: Dr. E. Shamir, Chair, HRC Hydrometeorologist Search Committee: EShamir@hrcwater.org. Selected candidates will be provided an application form that must be completed prior to final selection.

The position will remain open until filled.

HRC is an Equal Opportunity/Affirmative Action Employer. All qualified applicants will receive consideration for employment without regard to race, color, religion, sex, national origin, disability, age, protected veteran status, gender identity or sexual orientation.

In compliance with federal law, all persons hired will be required to verify identity and eligibility to work in the United States and to complete the required employment eligibility verification document Form I-9 upon hire.