



**Multiple Postdoctoral Opportunities in Hydrological Modeling and Data Assimilation:**

The Terrestrial Hydrology Group at the NASA Jet Propulsion Laboratory (JPL), California Institute of Technology, seeks candidates for postdoctoral positions in large-scale hydrologic modeling, river transport modeling, large-scale groundwater modeling, remote sensing, data assimilation and data science. Selected candidates will contribute to the development of the Western States Water Mission, a hyper-resolution modeling and data integration platform under development at JPL, as well as to research using NASA Earth Science flagship missions including GRACE/GRACE-FO, SWOT, SMAP, GPM and more (e.g. InSAR, GPS, ASO, ECOSTRESS). Additionally there is the potential for connection to JPL efforts in the NASA Applied Sciences program (e.g. SERVIR and the new Western Water Applications Office).

Candidates should have a recent Ph. D. (within the past five years) in hydrology, civil engineering, geosciences or a related discipline. Expertise in modeling, uncertainty quantification, assimilation and analysis of data from at least one of the flagship missions is highly desirable. Experience with software development and integration platforms like NASA's Land Information System is a plus. Proficiency in a varied computer-programming environment (Geographic Information Systems, Geospatial Python, Fortran, Linux Shell Scripting, High Performance Computing, open source, etc.) is highly valued. Postdoctoral Scholar positions are awarded for a minimum of a one-year period and may be renewed up to a maximum of three years.

Drs. Jay Famiglietti, Cedric David and J.T. Reager, all in JPL's Earth Science Section, will serve as postdoctoral advisors to the selected candidates, depending upon their interests. This team is well-known for its work in land surface and river transport modeling; in satellite observations of global hydrology, water cycle change and groundwater depletion; and for its efforts in science communication. As founding members of JPL's Terrestrial Hydrology Group, they are actively building a dynamic water research and applications program at JPL. These postdoctoral positions represent a major effort towards expanding their JPL team to better address the most pressing challenges of water issues in the American west, the United States and across the globe.

Please send a letter describing your research interests, a curriculum vitae, and the names and email addresses of three references to Michele Verdugo, Michele.L.Verdugo@jpl.nasa.gov. If appropriate to the candidate's background and interest, please include a link (e.g. GitHub, BitBucket) to an example hydrologic data analysis or modeling program. Review of applications will begin immediately and will remain active until the positions are filled.

Caltech and JPL are equal opportunity/affirmative action employers. Women, minorities, veterans, and disabled persons are encouraged to apply.

