

# Bureau of Reclamation's Sacramento Office Will Advertise Modeling Positions by June 2021

## Are you:

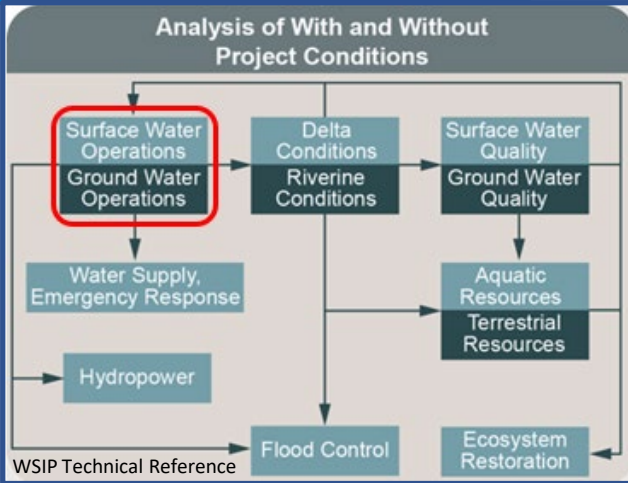
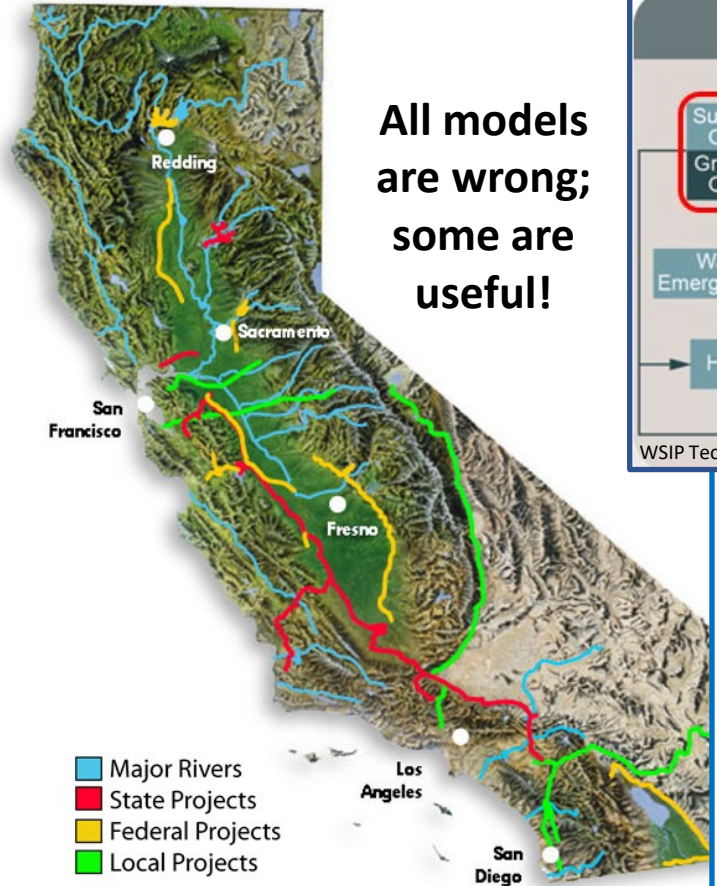
- Fascinated by California water resources issues and challenges?
- Energized by the associated analytical opportunities?
- Holding a resume focused on water resources sciences or engineering, with exposure to numerical methods and/or computer programming?
- Dedicated to developing knowledge and expertise?
- Interested in joining a growing team of young professionals?

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Seeking Candidates at BS to PhD Levels

## Modeling analysis helps to answer "What if..."

- ... **there was a new or modified facility (storage, conveyance)?**
  - Range of potential benefits to water supply, habitat, water quality
- ... **operations/regulations changed?**
  - Tradeoffs between water supply reliability and regulatory criteria
  - Explore bounds of operational flexibility, risk, and uncertainty
- ... **climate and/or sea level changed "this way"?**
  - Global Circulation Models/Emissions Pathways/Growth Scenarios
  - Explore water supply/demand imbalances under a range of hydrology and regulatory combinations



## Analysis tools and needs...



## Central Valley Project

- CVP Facilities – 20 dams, 11 power plants, 500 miles of major canals
- CVP Contracts provide
  - 5 MAF/yr to irrigate ~3 million acres (~1/3 of CA ag land)
  - 600 TAF/yr to urban water users in ~1 million households
- Central Valley Project Improvement Act (1992) dedicates
  - 800 TAF/yr of project yield to fish and wildlife habitat
  - 410 TAF/yr to State and Federal Wildlife Refuges and Wetlands
- CVP Meets Regulations
  - State – DFG standards; SWRCB water rights decisions (flow/WQ standards)
  - Federal – NMFS/FWS Biological Opinions; FERC licensing req'ts
- CVP shares responsibility for meeting regulatory criteria with the SWP under the Coordinated Operating Agreement (1986/2018)

The mission of the Bureau of Reclamation is to manage, develop, and protect water and related resources in an environmentally and economically sound manner in the interest of the American public.



\*\* Acknowledgements to Water Education Foundation for selected figures.