

There's little we can't do!

- Project design and preparation of contract drawings and specifications.
- Site layout and utility design.
- Geotechnical analysis and material testing.
- Environmental projects including habitat creation, restoration and enhancement.
- Hydrologic and hydraulic computations.
- Quantity calculations for cost estimation.
- Concrete, steel and wood building design.
- Design of flow control structures.
- Seismic stability analysis.
- Dam design and analysis.
- Finite element analysis.
- Slope stability analysis.
- Specialized structures.
- Structural analysis.



STATE OF CALIFORNIA  
Department of Water Resources  
Division of Engineering

1416 9th Street  
Sacramento, CA 95814

[www.doe.water.ca.gov](http://www.doe.water.ca.gov)

Department of Water Resources  
**CAREER OPPORTUNITIES**

# Civil Engineering



# Civil Engineering



**Division of Engineering employs civil engineers to plan, analyze, design and construct a wide variety of components of the State Water Project (SWP), one of the largest water conveyance systems in the world. Using state-of-the-art computer software and equipment, our engineers conduct analyses, prepare drawings and write specifications to ensure a project gets constructed efficiently and cost effectively.**

## Civil Engineering

The Division of Engineering (DOE) employs architects, civil, structural, geotechnical and hydraulic engineers to plan, analyze, design and construct a wide variety of facilities and structures for the State Water Project (SWP), one of the largest water storage and conveyance systems in the world.

Simply put, we build big, from projects at Oroville Dam, the tallest earthen embankment dam in the United States, to facilities like Angeles Tunnel, a thirty-foot-diameter, seven-mile-long tunnel supplying water to Southern California. Using state-of-the-art computer software and equipment, our engineers conduct analyses, prepare drawings and write specifications to ensure that projects are constructed efficiently and cost effectively.

### **DOE civil engineers work on a vast spectrum of projects:**

- Dams
- Pumping and power plants
- Canals
- Pipelines
- Fish facilities
- Bridges
- Tunnels
- And more

DOE civil engineers also work as first responders to flood and other emergencies and take leadership roles in emergency management. What's more, our design and construction expertise is often called upon by other state agencies. Our projects are located throughout California in many diverse and beautiful settings.

Licensed engineers in DOE provide technical expertise and mentoring to the new staff. Your work experience counts toward the time required to obtain your California Professional Engineer license. We provide excellent training and promotional opportunities, as well as possible assistance in higher education. In many cases, design engineers are given project management responsibilities and are provided an opportunity to assist with construction inspection for their projects. We encourage you to join our team.

