

Structure Policy & Innovation

As a team member with Structure Policy and Innovation (SP&I), you will work under the leadership of the State Bridge Engineer. Responsibilities include:

- Structural design of ancillary structures on the state highway system (culverts, sound walls, bridge barriers and overhead sign structures)
- Technical standards and guidance development for bridges and structures
- Development and implementation of innovative technology to improve delivery and safety (Accelerated Bridge Construction, Ultra High Performance Concrete, and Seismic Research)
- Special analyses, including earthquake engineering and hydraulic studies, for bridges and structures
- Implementation of the ISO 9001 quality management system
- Structure risk management

Program/Project Mgmt. & Office Engineer

Program/Project Management and Office Engineer (PPM&OE) offers exciting and wide ranging opportunities in project and contract management. PPM&OE manages the Division's Capital Outlay Support and Non-Capital Programs. Areas of responsibility include:

- Developing project work plans, allocating resources and monitoring program resource utilization
- Developing, maintaining and reporting management indicators
- Providing project management expertise, training and support using proven project management techniques and tools
- Acting as a liaison and technical support to ensure that structures designed by others conform to Department policies, standards and practices
- Providing all California local agencies with assistance, training, and support for delivery of their federal aid structure projects
- Providing qualified contractors with a fair opportunity to bid on Department construction contracts

Division of Engineering Services

Job Opportunities

TRANSPORTATION ENGINEER (CIVIL)

www.jobs.ca.gov

- ◆ Salary Range \$5,098 - \$9,548 per month
- ◆ Excellent Benefits
- ◆ Gain qualifying experience for the Professional Engineering exam
- ◆ Statewide Vacancies
- ◆ A Professional Career Building Rotation Program

Four Easy Steps:

1. Take the online Training and Experience Evaluation at: <https://www.jobs.ca.gov/CalHRPublic/Search/ExamSearch.aspx>
2. Enter "Transportation Engineer (Civil)" in the keyword field.
3. Upon successful completion of the exam, you will be placed on the eligibility list to become qualified for future vacancies.
4. Search for Caltrans vacancies at: <https://www.jobs.ca.gov/CalHRPublic/Search/AdvancedJobSearch.aspx>. Create an account to be notified when new vacancies are posted.

To see the education and experience requirements for this classification, go to: <http://www.calhr.ca.gov/state-hr-professionals/pages/job-descriptions.aspx>, and enter class code 3135.

We also hire student assistants!

www.calinterns.org

State of California • Department of Transportation

DIVISION OF ENGINEERING SERVICES



Devil's Slide Bridge

<http://www.dot.ca.gov/des/>



Craig Creek Bridge



Laurel Street Overcrossing



Structure Construction

Working for Structure Construction (SC) is an exciting career as you will:

- Interface with contractors on projects in the role of contract administrator
- Ensure that projects are built with quality and structural integrity to conform to construction contract plans and specifications
- Perform on-site engineering inspection and problem-solving while administering the construction of bridges, earth retaining structures, culverts, tunnels, and other structures on the state highway system
- Provide technical support for the design and construction of complex falsework and shoring systems

SC interfaces with engineers in other DES subdivisions throughout the life of the project and, best of all, see projects through to completion. Jobs are located throughout the State of California.

Structure Design

In Structure Design (SD), dynamic teams of engineers design complex structures (including precast and Accelerated Bridge Construction methodologies) to construct:

- Slab Bridges
- Box Girder Bridges
- I-Girder Bridges
- Segmental Bridges
- Steel Bridges
- Arch Bridges
- Retaining Walls
- Buildings (including roadside rest areas, CHP inspections stations)
- Pumping Plants

SD offers opportunities to model bridge structures and perform seismic analyses using the latest finite element and in-house proprietary software.

Putting the final design on plan sheets and helping to develop specifications involves attention to detail and is rewarding to see through to construction.

Geotechnical Services

Geotechnical Services (GS) provides statewide planning, design, and construction recommendations to achieve project objectives. Working for GS, you may be involved with:

- Soil and rock field investigations
- Geotechnical earthquake engineering
- Exploratory drilling, geophysics, and the development of foundation recommendations for structures, including design and construction support
- Providing emergency response to landslides, rockfall, bridge scour and earthquake damage
- Working in an AASHTO-accredited geotechnical laboratory
- Developing statewide policy, standards and guidance for engineering geology products and services
- Serving as the Department's liaison to professional groups involved in soil and geologic investigations, design and construction

Materials Engineering & Testing Services

Materials Engineering and Testing Services (METS) is a team of dynamic problem solvers that:

- Ensures the quality of materials used on construction projects statewide
- Uses material science, test results, knowledge of industry practices, and fabrication expertise to make material acceptance decisions and develop standards and quality requirements used to manage construction projects
- Conducts forensic analyses, innovative materials assessments, material facility audits and inspections nationwide

The METS laboratory establishes standards and conducts complex testing for:

- Aggregate
- Asphalt
- Chemistry
- Concrete
- Corrosion
- Electrical systems
- Steel
- Structural mechanics
- Non-destructive evaluation

Caltrans Mission: Provide a safe, sustainable, integrated and efficient transportation system to enhance California's economy and livability



Willits Bypass Project



Confusion Hill Bridge



Tex Wash Bridge Replacement



Charpy Sample Machinery