

### BRIDGE ASSOCIATE

#### SOUTHERN CALIFORNIA

#### WHO WE ARE

Supported by more than 3,500 employees in nearly 100 locations across the United States, we provide a full continuum of engineering and consulting services, including design, planning, architectural, environmental, and construction and program management. Our clients include U.S. federal, state and municipal governments, foreign allied governments, and a wide range of commercial clients. Michael Baker is committed to delivering a standard of excellence that fosters a culture of innovation, collaboration, and technological advancement to help solve our clients' complex challenges.

#### BRIDGE PRACTICE

Michael Baker International addresses bridge design, construction, and preservation challenges with innovative and sustainable solutions. Exemplifying its depth and versatility in the bridge space, Michael Baker International, ranked **Number 4** by Engineering News-Record in its annual ranking of Bridge Design Firms in the United States, has partnered with clients on all phases of design and inspection across the full spectrum of bridge types - from design of cast-in-place or precast prestressed concrete girder freeway and river crossings, steel plate girder railroad grade separations, and seismic design and retrofits, to inspection, load rating, and repair of major steel truss, cable-stayed, suspension, and tied-arch river crossings, to design-build project delivery contractor partnerships and construction support engineering, and everything in-between. The Michael Baker Bridge Practice consists of over 300 engineering professionals dedicated to providing the highest quality solutions for our clients through teamwork and inter-office collaboration that leverages a deep bench of technical knowledge and experience. Our local bridge team is growing! We're looking for engineers with vision and initiative to play an integral role in that growth. We believe that we are stronger together and are on a mission to build an outstanding, supremely capable, and cohesive team. Each of our engineers is critically valuable to our success and we support the development of unique, personally crafted careers. You will have the freedom to work from the location of your choice throughout Southern California and beyond with opportunities to meet with local staff and management in-person as needed. We're shaking up the old paradigm and handing the reins to you to build your best career. **Come build with us!**

#### DESCRIPTION

As a part of the local Bridge Department and regional Bridge Practice, you will be responsible for assisting in the preparation of structural plans, specifications, cost estimates, calculations, reports, and general technical support for civil infrastructure projects including bridges, retaining walls, flood control structures, and other transportation related structures. You will support local Southern California projects, regional projects throughout California, Alaska, Oregon, Washington, Colorado, and Arizona, as well as projects throughout the country as needed. You will have the opportunity to grow your technical competency focusing on the direction of your choice under the guidance and with the support of senior engineers and managers such that you can take on increasingly challenging tasks with commensurately increasing responsibility and autonomy.

Anticipated responsibilities include the following:

- Capital projects are often large and multi-disciplinary, involving all civil technical disciplines, often from multiple public and private organizations, as well as contract management and oversight professionals from multiple agencies. For the consultant to provide the most effective service and phased deliverables, exceedingly talented communicators and collaborators are required. It is our experience and firm belief that the most valuable skill for the long-term success of the bridge engineer is the ability

## **I N T E R N A T I O N A L**

to effectively communicate complex ideas, both written and spoken. You will be required to communicate in all forms, regularly, with the understanding that your communication is a reflection of our local competency, our larger business, and our dedication to professionalism.

- Preparation of construction/contract documents (PS&E), technical studies and reports, and supporting calculations and documentation.
- An understanding of the finite element analysis (FEA) concepts and ability to gain competency in the use of bridge specific FEA, section analysis, design, post-processing, and related software.
- Application of bridge design safety code requirements, including AASHTO LRFD.
- Application of Seismic Design concepts.
- Ability to perform construction site visits and offer construction support engineering services, to include responding to contractor RFI's and reviewing shop submittals.
- Ability to coordinate with CADD technicians to ensure timely and accurate plan preparation.
- Ability to manage and track your time, with some assistance, amidst a multitude of deadlines.
- Ability/desire to pursue California Professional Engineering Licensure.
- Our bridge inspection, load rating, and bridge maintenance and preservation work is growing. A willingness to learn bridge load rating techniques and associated software will be required. An opportunity to become an NHI certified bridge inspector as a component of your overall responsibilities may be available in time.

### **PROFESSIONAL REQUIREMENTS**

- B.S. Civil Engineering. M.S. Structural Engineering highly preferred.
- California Engineer-in-Training (EIT) certificate.
- 0-4+ years of progressive work experience in structural/bridge design.

### **MICHAEL BAKER INTERNATIONAL EEO STATEMENT**

Michael Baker International is proud to be an Affirmative Action/Equal Opportunity Employer. Michael Baker International provides equal employment opportunity for all persons, in all facets of employment. Michael Baker International maintains a drug-free workplace and performs pre-employment substance abuse testing and background checks. We encourage all qualified applicants to apply for any open position for which they feel they are qualified, and all will receive consideration for employment without regard to race, color, religion, age, gender, sexual orientation, gender identity, national origin, citizenship status, marital status, genetic information, disability, protected veteran status or any other legally protected status.

EEO is the Law. Applicants to and employees of Michael Baker International are protected under Federal law from discrimination.

### **POINT OF CONTACT**

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