PRESIDENT’S MESSAGE
by Janiele Maffei

Happy New Year! If your holidays were like mine you no doubt went to one or two (or seven) holiday parties where you had the opportunity to describe to at least one friend or relative what a structural engineer does. Even my relatives have had to ask a second or third time to try to understand just exactly what I do. Lately I have steered away from the traditional recitation of what an engineer does to a hopefully more dynamic description of why we do what we do. I got the idea from an online search I did recently related to the SEAOC board’s strategic planning effort. I looked up the definitions of a structural engineer and a physician. The definitions available online for structural engineering describe our profession as a sub-discipline of civil engineering dealing primarily with the “design and construction of structures.” The online definition of a physician was very simple but powerful, a physician was described as “a healer.” I took this lesson and applied it to how I describe what I do. Now, when I describe what I do I include a brief description of how my work keeps people safe. It allows me to personalize and humanize the description of my very technical job. Hopefully it also lets others know how important our work is. No doubt many SEAONC members travelled by plane, train or automobile to be with family and friends during the busy holidays. In the course of that travel they would have passed cities and towns of all sizes, crossed highway overpasses and bridges, and maybe even waited countless hours in vast airport terminals. We know the technical expertise that went into the design of the built environment around us and we are proud of the contributions of our profession. More importantly we know how important that technical expertise is to the people who live and work in that built environment. Together, through our SEAONC committees and individual efforts, we have the opportunity to make that less of a secret.
The expanded and improved Moscone Convention Center is a key development to enhance the Yerba Buena neighborhood and keep San Francisco's number one industry of tourism competitive. As the city and the convention landscape continue to grow, this vital facility needed to expand to meet future needs.

Originally designed in the early 1980s by T.Y. Lin International, the Moscone Convention Center includes two separate one-story basement level conference spaces, each encompassing nearly a full city block. The expansion project included work across the site, including a new three-story 94’ ft tall 200,000 sq. ft. superstructure housing ballroom and meeting room spaces, two new steel bridges spanning over Howard Street and a PT concrete girder linking concourse under Howard Street to allow for the creation of below grade expanded and contiguous of convention spaces. In order to remain financially feasible, the existing facilities and streets needed to remain in use through the duration of construction.

The project was a collaboration between multiple firms, with structural design performed by Skidmore, Owings and Merrill LLP (SOM), SOHA Engineers and Tipping Structural Engineers.

The talk will focus on the unique features and challenges of this landmark project.

Speakers

Chris Horiuchi, SE, LEED AP is an Associate of Structural Engineering with SOM in San Francisco. A graduate of UC Berkeley, Chris joined SOM in 2014. His work has included the Moscone Center Expansion, the Sea-Tac Airport International Arrivals Facility and the expansion of the LA County Museum of Art. Chris is active in multiple research efforts within SOM developing new systems and techniques to address seismic resilience and reduce carbon footprint of the firm’s projects.
Leo Panian is a principal at Tipping Structural Engineers where he practices from the intersection of seismic engineering, advanced analysis, and design technology, to deliver cost-efficient, high-performance projects for his clients. Leo's career has focused on creating practicable design solutions founded on an expert understanding of structural performance. Leo has led and managed many of Tipping's ambitious projects, garnering regional and national recognition for innovation and engineering excellence in seismic design.

Gerard Madden, PE, SE joined SOHA Engineers in 2007. He has extensive experience in the analysis and design of new and existing steel, concrete and wood buildings. As senior project manager, his responsibilities include all phases of design as well as construction administration. Mr. Madden's past project experience includes healthcare facilities, educational facilities, laboratories, office buildings, civic facilities, state and federal projects, and the restoration and upgrade of historic structures. Mr. Madden often serves as SOHA Engineers’ primary day-to-day contact person with the design team on all technical and contractual matters. His critical role extends to supervision and direction of SOHA's project staff, contract management, scheduling, cost control, quality assurance and coordination with the design team.

Stanford University Shah Family Fund Lecture Series - Reducing Losses from Catastrophic Risks: The Role of a Behavioral Risk Audit

Date: Tuesday, January 21, 2019
Reception: 4:00 pm
Program: 4:30 pm
Location: Koret-Taube Conference Center
Gunn-SIEPR Building
366 Galvez Street
Stanford University
Click here to register

This talk highlights factors that lead individuals not to protect themselves against low-probability high-impact events until it is too late. How can risk assessment and risk perception be useful inputs for developing implementable risk management strategies to reduce future losses? To highlight the role that the public and private sectors can play in addressing this challenge, this will focus on the earthquake and wildfire hazards that property owners face in California and other parts of the country. The errors that individuals exhibit in deciding not to purchase insurance or invest in loss reduction measures prior to a disaster can be traced to the effects of six decision biases: myopia, amnesia, optimism, inertia, simplification and herding. A behavioral risk audit can incentivize property owners in hazard-prone areas to take steps now to reduce their future disaster losses.

Howard Kunreuther is the James G. Dinan Professor Emeritus of Decision Sciences and Public Policy, and Co-Director of the Wharton Risk Management and Decision Processes Center at the Wharton School, University of Pennsylvania. Howard has a long-standing interest in ways that society can better manage low-probability, high-consequence events related to technological and natural hazards. He is a fellow of the American Association for the Advancement of Science (AAAS), a distinguished fellow of the Society for Risk Analysis, and recipient of the Shin Research Excellence Award from the Geneva Association and International Insurance Society (IIS) in recognition of his outstanding work on the role of public-private partnerships in mitigating and managing risks.
Did you know that the Palace of Fine Arts is one of three remaining structures from the 1915 Panama-Pacific International Exposition? The world’s fair was held in the Marina District with nearly all buildings constructed of wood and torn down following the event. The building was reconstructed in 1962 to preserve its history and was retrofit in 1993 following the Loma Prieta earthquake. You can learn more about the Palace of Fine Arts as well as other history of structural engineering in Northern California at the Hensolt SEAONC Legacy Project. The project can be viewed at legacy.seaonc.org and if you wish to contribute to the project, click here.

Of course, the Hensolt SEAONC Legacy committee is always looking for more ideas, energy and participation from the SEAONC membership. This committee provides the unique perspective on the history of structural engineering in Northern California and it is an opportunity to learn and understand how our profession has evolved. Therefore, if you are interested in participating in this ongoing endeavor, please contact the SEAONC office at 415-974-5147 or office@seaonc.org.
SEAONC SE3

SEAONC SE3 2020 PROGRAMMING

The SEAONC SE3 Committee leadership team is excited with the proposed 2019-2020 programming, activities, and member participation. Whether or not you have been a member of our committee in past years, we would be delighted to have your contributions in any of the following sub-committees and programs.

- Mentorship Subcommittee
- Diversity and Inclusion (D&I) Subcommittee
- Outreach Subcommittee & Communications Subcommittee
- Exit Interviews
- Career Tips for Practicing Professionals

If you are interested in joining the SEAONC SE3 committee, please email us at se3@seaonc.org. Wishing you all a wonderful holiday and a happy new year!

SEAONC SE3 YEAR IN REVIEW

The SEAONC SE3 Committee had a very productive year in 2019. Committee members worked to expand the SE3 network by connecting with professionals and advocates throughout the state, hosted several successful events in the SF Bay area, published a new blog and pay report, and continued to develop new resources that contribute to our mission to advance the profession.

2019 SE3 Events & Presentations

- SE3’s Long-Term Mentorship Program launched in March 2019, connecting over 50 mentees to 27 seasoned professionals living and working in the San Francisco Bay Area.
- In May 2019, former SEAONC & NCSEA SE3 co-chair Nick Sherrow-Groves was invited to present at a SEAOSC Leadership Symposium “SEIZE YOUR OPPORTUNITY” for the Women in Structural Engineering Committee.
- SEAONC SE3 hosted the #ChangeXSE3 Symposium in May 2019 in San Francisco titled “A Changing Workplace: How to Engage, Retain and Secure the Future of our Profession.” Check out our video documentary to hear reflections from practicing structural engineers on the day of the event.
- In August 2019, SE3 hosted a Building Industry Speed Mentoring Event where structural engineers,
geotechnical engineers, architects and general contractors were invited to participate as mentors.

• At the end of August, SEAONC SE3 published its first “Leadership in Action” blog post which features discussions on engagement and best practices for improving talent retention, with insights and metrics from researchers and our own building design industry leaders. We invite all practicing professionals to share their experiences and successes related to engagement and equity with us. Contact us at SE3project@gmail.com to contribute to the blog!

• The 2018-2019 SEAONC SE3 Committee co-chairs Hayley Dickson and Zahraa Saiyed presented at the 88th Annual SEAOC Convention in Squaw Creek, California.

• Career coach Dr. Amina Aitsi-Selmi, M.D. Ph.D., held a Webinar entitled “Engineer Your Dream Career” for SEAONC members in October 2019.

• In October 2019, the SEAONC SE3 Diversity & Inclusion Task Group, the SEAONC Young Members Forum, and AIA East Bay hosted a workshop on “Building an Inclusive Workplace for All in the 21st Century”. The event served as the launch of SE3’s D&I initiative focusing on expanding the conversation around equity and engagement in structural engineering.

• In mid November, SE3 held a picnic in the Presidio to show appreciation to committee members, mentors, advocates, and champions.

Research / Publications
In 2017, the SEAONC SE3 Committee conducted a more in-depth analysis of the 2016 survey data to (1) provide more detailed information on pay based on a variety of factors, (2) discover the overall influences on pay, and (3) investigate the details of the gender pay gap that was reported in the 2016 report. In May 2019, the SE3 committee published a report of these findings, under the leadership of former SEAONC & NCSEA SE3 co-chair Angie Sommer.

NCSEA SE3 YEAR IN REVIEW
The National (NCSEA) SE3 committee has achieved quite a bit over the past year. The committee has increased collaboration across multiple SEA member organizations and other AEC organizations, completed over 15 presentations around the US and abroad, and hosted two very successful symposia, with over $40K in corporate sponsorships between the two. Analysis of the 2018 survey data continued, with special efforts in reporting geographic trends, flexibility and childcare, and wage gap at Principal level. In a huge collaborative effort, the 2018 Survey report was published, and can be viewed here.

Moving forward into 2020, in addition to the 2020 NCSEA SE3 survey (development, beta testing, and distribution), we are excited to be transitioning to what we are calling a “CALL TO ACTION”, to encourage all individuals in this profession to move beyond the data by starting conversations and effecting change in their respective organizations. What is your “reimagined workplace” and what do you plan to do to enhance your career, and influence positive changes in your immediate work environment?

See the newly published national SE3 committee website for more information on the committee, events, and publications.
Thank you to our inaugural Firm Sponsors!
We sincerely thank you for your support of SEAONC.

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G F D S ENGINEERS

WJE
Support

» Special Projects Initiatives
   » Past Projects Include: Testing of Anchor Bolts, Special Moment Frame Qualifications, Resilience Criteria
» Philanthropic (Student Scholarships, SEAOC Convention Scholarships & Grants, Engineers Alliance for the Arts, and Rebuilding Together)
» Encourage Active Participation Within SEAONC
» Promote Professional Development of your Employees

Contact the SEAONC office:
(415) 974-5147
office@seaonc.org

B E C O M E A
F I R M S P O N S O R

ANNUAL SPONSORSHIP LEVELS

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- SEAONC Philanthropic Efforts ($1,000 value) ($2,000 value) ($3,500 value)
- Logo on SEAONC Website and Newsletter
- 1 registration ($870 value) 2 registrations ($1,740 value) 3 registrations ($2,610 value)
- 1 registration ($390 value) 2 registrations ($780 value) 3 registrations ($1,170 value)
- 6 months ($1,500 value) 12 months ($3,000 value) 12 months ($3,000 value)

SEAONC REFERRAL LIST

Join the SEAONC Referral List!

Dear SEAONC Community,

We would like to take this opportunity to thank you for your support over the past few years. We value all contributions to SEAONC, and your involvement is extremely important to us and to the community at large.

SEAONC’s referral list serves to assist individuals seeking to find structural and civil engineers that specialize in specific areas of structural engineering. The referral list is a valuable tool to the community and we often get calls and emails from the public looking for a structural engineer.

The cost to be added to the referral list is $100 and is valid for a period of 1 year.

Click here to fill out the application as part of the process to assure our data is accurate and up-to-date. Send completed application to office@seaonc.org.

To view the 2020 Referral List click here.
ENGINEERS ALLIANCE FOR THE ARTS

STUDENT IMPACT PROJECT

CALL FOR VOLUNTEERS!

ENGINEERS ALLIANCE FOR THE ARTS (EAA) facilitates a unique classroom bridge-building program in San Francisco and throughout the Bay Area. EAA is looking for volunteer engineers, architects, design and construction professionals to fill the teaching spots for our 2020 program. This is a great opportunity to give back to the community — particularly to inspire high school students to potentially pursue engineering or design in college — and also polish your knowledge of bridge design and construction. This teaching opportunity is open to professionals at all levels, whether you are new to the industry, a tenured professional or retired.

If you are new to the program, don’t worry! Every class will have a Lead Volunteer to run the lesson plans. We will also have an Orientation Meeting with information on the program and to meet your volunteer team and high school teachers. The time commitment is about 3 hours per week (1.5+ hours teaching, 1 hour transportation to and from class, and 0.5 hour of preparation).

Please contact EAA’s Executive Director Michelle Lehman at eaabayarea@gmail.com if you are interested in participating. For more information about the program, check out our website: www.EngineersAlliance.org.

Even if you can’t participate this year, please help spread the word to coworkers and other engineers or architects you may know.

Volunteer/Teacher Orientation:
Wednesday, January 15, 2020, 6pm
Degenkolb Engineers
375 Beale St.
San Francisco

10-Week Program:
January – May

Awards Event:
Saturday, April 18, 2020
Thank you to our annual PLATINUM sponsor Computers & Structures, Inc!

STRUCTURAL ENGINEERING

is critical to the world’s economy and economic infrastructure. If structural engineers stopped working, all of human progress would come to a screeching halt.

It is clearly a profession that is indispensable to humanity.

Why, then, don’t our professional fees and compensation reflect our immeasurable contributions to civilization?

Low fees are affecting our profession’s ability to attract and retain the smartest graduates. Meanwhile, some of the brightest minds in our field are leaving to pursue alternative careers. This will have devastating effects on the quality of our professional work and will become a public safety issue. We must face these issues before it’s too late.

Real estate agents get paid 4% to 6% of the selling price of a building each time it is sold. Structural engineers get 0.5% to 1.5% of the construction cost, one time only. The real estate agents have it figured out. Why can't we?

@ashrafhabibullah
Arup

Job Position: Senior Structural Engineer

Job Description: Excellence Leaves a Lasting Impression. Bring Your Vision to shape a better world.

At Arup, our innovative spirit compels us to express our ingenuity in unique ways — developing many of the world’s most innovative and sustainable buildings, transport and civil engineering projects. Arup is a global engineering and consulting firm of 16,000 creative minds. Our integrated approach to engineering and design brings together the best professionals to meet our client’s needs.

Our San Francisco office is seeking a Senior Structural Buildings Engineer to support our building projects. You will work as an integrated member of multi-disciplinary teams on a wide variety of project types. Our projects cover a wide range of project types, scales, from mixed-use developments, high rise towers, sculpture and health care.

Job Responsibilities include but are not limited to the following:

- Leadership of structural engineering teams involved with the engineering design and optimization of complex building structures
- Prepare and review drawings and detailing of the building systems designed
- Supervise the preparation of submittals
- Report writing
- Coordination of work with engineers of other disciplines
- Project and team administration duties
- Attend meetings and communicate with clients to establish their needs and discuss design issues with them
- Business development through the development of trusted relationships with clients on your projects
- Commercial Financial Awareness
- Client communication and participation in work to win new clients and projects

Requirements:

- Master’s degree in Civil/Structural Engineering with a sound knowledge of structural engineering fundamentals for the design of building systems.
- 6+ years of relevant work experience
- PE and SE licensed
- Design and analysis skills in seismic engineering of buildings including seismic detailing.
- Good communication & people skills, team player
- Ability to be lead teams of structural engineers
- Have project and staff management experience
- Excellent planning and organization skills required for our fast-paced environment
- Must be highly motivated, proactive and willing to take on new challenges

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Job Position: Structural BIM Designer

Job Description: Start Here, Go Anywhere! Are you looking for an opportunity to shape a better world?

At Arup, our innovative spirit and determination enables us to express our ingenuity in unique ways developing many of the world’s most innovative and sustainable building engineering projects. Arup is a global engineering and consulting firm of over 16,000 creative minds. Our integrated approach to engineering and design brings together the best professionals to meet our clients’ needs.

Our San Francisco office is currently seeking a Structural BIM Designer to join our growing buildings business and work with design engineers from our Structural team.

Job Responsibilities include but are not limited to the following:

- Utilize BIM programs to design various structures such as high-rises, schools, museums, hotels, and other structures across a wide range of industries
- Work closely with engineers and other BIM Designers to create models and drawing sets
- Coordinate between multi-disciplinary groups to ensure complete drawing packages are compiled, completed, and
coordinated
• Apply logic, sensibility, and organization to a wide variety of BIM applications
• Documentation and archiving of drawings
• Maintenance of various Excel documents

Requirements:
• Associate or Bachelor's Degree in Computer technology, BIM drafting, solids modeling, or related field
• 1+ years of internship or full-time experience with a design firm, structural BIM design experience preferred
• Past history of technical drawing or BIM modeling
• Experience in 3D modeling platforms such as Revit, Tekla, Rhino, or AutoCad is required
• Experience in coding or parametric design using Dynamo, Grasshopper, C#, Python, etc. is desirable
• Detail and accuracy oriented
• Ability to communicate thoughts and technical ideas in an accessible way
• Attitude of taking initiative, enthusiasm, eagerness to learn
• Good communication skills essential for team-based working
• Excellent planning and organization skills required for our fast-paced environment
• Must be highly motivated, proactive and willing to take on new challenges

How to Apply / Contact
Please apply via our website at www.arup.com

Benefits
- Arup offers an outstanding benefits package including healthcare, 401k match of 10%, 4 weeks of Paid Time Off (PTO) and bonus compensation in the form of Profit Share.

Arup is an equal opportunity employer committed to a diverse and inclusive work environment where our people are encouraged to grow.

CDM Smith

Job Position: Structural Engineer

Job Description: CDM Smith provides lasting and integrated solutions in water, environment, transportation, energy and facilities to public and private clients worldwide. As a full-service consulting, engineering, construction, and operations firm, we deliver exceptional client service, quality results and enduring value across the entire project life cycle.

Job Responsibilities:
CDM Smith is a multi-discipline engineering and architectural firm. Our firm is responsible for large-scale water and wastewater plant design, transit facilities, industrial facilities, office space design, facility planning and condition assessment work. As a Structural Engineer at CDM Smith you will have the opportunity to grow your career as part of a collaborative multidisciplinary team of technical experts working on challenging projects in Environment, Industry, Commercial, Transportation, and Water in the United States and beyond.

The Structural Engineer will have the following responsibilities:
• Supervise a project team of structural engineers and drafters.
• Prepare scope of work and budget estimates, and monitor progress.
• Forecast workload and schedules.
• Develop structural design criteria for projects.
• Analyze and design structures for water and wastewater treatment, and other facilities.
• Prepare structural design calculations and check calculations prepared by others.
• Direct the development of structural drawings and models. Coordinate design with other disciplines.
• Review or write specifications. Develop new specifications as needed.
• Perform engineering services during construction, including review of shop drawing submittals and response to contractor questions.
• Conduct condition assessments of existing structures and prepare reports.
• Manage tasks on large projects or manage a number of small projects.
• Participate in new business development.
• Meet budgets and schedules on assigned projects while maintaining quality.
• Act as a mentor for junior staff.

Job Requirements:
• Bachelor’s degree in Civil, Architectural or Structural Engineering or related discipline. Professional engineering (PE)
license.

• 7 years of related experience.

• Domestic and/or international travel may be required. The frequency of travel is contingent on specific duties, responsibilities, and the essential functions of the position, which may vary depending on workload and project demands.

We attract the best people in the industry, supporting their efforts to learn and grow. We strive to create a challenging and progressive work environment. We provide career opportunities that span a variety of disciplines and geographic locations, with projects that our employees plan, design, build and operate—as diverse as the needs of our clients. CDM Smith is an Equal Opportunity/Affirmative Action employer. All qualified applicants will receive consideration for employment without regard to race, color, religion, sex, national origin, disability, or protected veteran status.

How to Apply / Contact
Qualified candidates should apply by clicking on the link below:
https://sjobs.brassring.com/TGnewUI/Search/home
HomeWithPreLoad?PageType=JobDetails&partnerid=25038&siteid=5220&areq=24998BR&code=SEA

Coffman Engineers

Job Position: Structural Engineer (5-10 years experience)

Job Description: The right team is more than an advantage, it’s a game changer! Come work with a team of engineering professionals dedicated to excellence at Coffman Engineers’ Bay Area office.

Coffman Engineers is seeking a Structural Engineer with five to ten years of experience to assist in the design of commercial, institutional, and industrial structures for our Bay Area office located in Oakland, California. The successful candidate will be enthusiastic, have a desire to work and grow with a multi-discipline engineering team, and be willing to have fun.

Why You Want To Work Here

You could choose to work anywhere, so why work at Coffman Engineers? Because we are different – our culture sets us apart. Simply stated, we are a group of creative, high-performing people who like working together and believe that what we do makes a difference. Employees say that it feels like working with a group of friends in a small office while enjoying the benefits and perks of working for a large firm. Our culture isn't the only thing that makes us different, but it drives everything we do.

Coffman offers comprehensive benefits, including a flexible PTO program and a fun office environment. Our Bay Area office is conveniently located near Lake Merritt and 20th Street, just three blocks from BART. Whether it is delivering the best possible service to our clients, or competing in an office-wide curling competition, we welcome the dedicated and the driven. Join us.

Don't take our word for it. Check out what others are saying: http://www.glassdoor.com/Reviews/Coffman-Engineers-Reviews-E409809.htm

Follow us!
www.coffman.com
Twitter: @CoffmanEngineer
Instagram: @CoffmanEngineers
LinkedIn: https://www.linkedin.com/company/coffman-engineers
Facebook: @CoffmanEngineers

Job Requirements:

• A four-year degree in civil engineering or a related field
• Master's Degree in Structural Engineering (preferred)
• Registration as a P.E.
• Registration as a S.E. (preferred)
• 5 to 10 years of experience in the structural design of buildings or similar structures
• Ability to work independently, and supervise the efforts of a small team
- Ability to maintain a good working relationship with clients
- Experience with computer analysis software systems
- Excellent leadership, supervisory, and writing and verbal communication skills

This position is not eligible for sponsorship.

How to Apply / Contact
You must apply online for this position. If you are unable to complete our online application process, or if you need assistance to do so, let us know so we can provide a reasonable accommodation.

As part of the application process, you will be asked to create a user profile that allows you to manage the application process, answer a few questions, attach your resume and other documents, and then submit. We look forward to learning more about you! If you are accessing this from outside our website, go to http://www.coffman.com/home/careers/openings/oakland-openings/ and open the appropriate position posting.

If you are experiencing problems applying through our system, please try again using a different browser or an updated version of your current browser. If that doesn’t work, please contact us directly.

This position is direct with Coffman Engineers; we are an Equal Opportunity and Affirmative Action Employer of Minorities/Females/Veterans/Disabled individuals.

H.D. Rueb Structural Engineer
Job Position: Structural Engineer/Designer
Job Description: H.D. Rueb Structural Engineer is a consulting firm in Pleasant Hill, and we are looking to hire a full-time structural engineer/designer.

Our firm has provided structural engineering services for over 45 years, and we have extensive experience in a wide variety of buildings: schools, offices, commercial, medical, public/institutional, churches, retirement centers, apartment complexes, seismic retrofits and custom residential.

Job Requirements:
Minimum Qualifications:
- 3 years minimum experience in the field of structural engineering.
- CE license is required.
- SE license and MS degree are preferred.
- Experience in the design of wood, steel, concrete and masonry structures.
- Solid understanding of building codes and seismic provisions.
- Experience with DSA and/or OSHPD is preferred.

Minimum Required Skills:
- Self-motivated and able to work independently with minimal supervision.
- Excellent verbal and written communication skills.
- Multi-tasking to effectively work on several projects concurrently.
- Experience with structural analysis software: Enercalc and RISA are required, SAFE and ETABS are preferred.
- Basic proficiency with AutoCAD.
- Prepare accurate and complete structural calculations, plans and details.

We offer a competitive salary, 401k, health insurance allowance, flexible hours, paid vacation, sick leave and holidays.

How to Apply / Contact
Please send your cover letter and resume to staff@hdrse.com.

Hoogerwerf Engineering Group, Inc.
Job Position: Experienced Project Engineer
Job Description: Hoogerwerf Engineering Group, Inc. (HEGI), located in San Jose, CA, are recognized specialists in the engineering of Post-Tensioned Concrete buildings. We are growing our engineering capacity to meet the increased demands of the construction industry. HEGI is well known for using value-engineering techniques to create economical designs while meeting aggressive project deadlines. HEGI staff engage in a team approach to take projects from inception to completion in
a timely manner, delivering accurate final engineering calculations and construction documents. We are hiring experienced engineers to join our team, seeking individuals with a solid background in all materials of construction. You will have the opportunity to work on exciting engineering projects throughout California.

- Perform lead structural engineer duties on designated projects.
- Analyze and design structures using industry engineering software.
- Coordinate design and schedule with other disciplines (via email, phone & meetings).
- Perform review of all project documents for accuracy and completeness.
- Recognize potential project problems quickly and identify solutions.
- Conduct periodic job site observations and other services as required.

**Job Requirements:**
- Bachelor's degree in Civil or Architectural Engineering.
- S.E. or P.E. License in State of California.
- 5 years or more experience in:
  - Designing multiple types of projects (mixed-use, multi-family with podiums, parking structures etc.).
  - Structural design software such as ADAPT, ETABS, SAFE and ENERCALC.
  - Concrete, masonry, wood and steel framing design.
- Familiarity with CAD and BIM modeling software (AutoCAD and Revit).
- Proficiency in MS-Word and MS-Excel (for correspondence and calculations).
- Strong teamwork and communication skills.
- Project management experience.

**How to Apply/Contact**
For more information on Hoogerwerf Engineering Group, Inc. (HEGI) and to view our portfolio of engineering projects visit our website. Please send resume and cover e-mail to HR@hoogerwerfegi.com.

**KPW Structural Engineers, Inc.**
**Job Position:** Project Engineer

**Job Description:**
KPW Structural Engineers is a leading Bay Area structural engineering firm located in Oakland’s Jack London Square. KPW specializes in the Life Sciences, Tech, Civic, Education, Mixed-Use, and Healthcare market sectors. We are a group of 30+ vibrant and outgoing individuals, and we’re looking to add to our team. We offer a relaxing and engaging work environment, challenging projects, supportive mentorship, and emphasize work/life balance.

We are currently looking for well-rounded and collaborative structural engineers with 2-7 years of experience to join our team. The ideal candidate is someone who is looking to be challenged technically, able to manage all phases of a project, work independently and in groups, embrace technology and apply it to their work, and are enthusiastic about their professional growth.

**Job Requirements:**
- BS degree in Civil Engineering with completion of relevant coursework in Structural Engineering
- Registration as a Civil Engineer in the State of California
- Experience with Steel, Concrete, and Wood-framed design

**Desired:**
- MS degree in Civil Engineering with an emphasis in Structural Engineering
- Three years of engineering experience in the structural engineering field
- Experience with Building Information Modeling

**Essential Functions:**
- Responsible for the production of engineering documents such as reports, calculations, and drawings that are complete and technically accurate
- Supervises and mentors Staff Engineers and CAD staff
- Responsible for handling interactions with the client regarding technical design issues, coordination of document preparation, and submittal schedules
- Responsible for tracking KPW project costs, meeting contractual obligations within the stated terms with an emphasis on efficiency
How to Apply / Contact
To apply please visit https://www.kpwse.com/careers. We look forward to learning more about you.

Project Frog, Inc.
Job Position: Structural Project Manager
Job Description: Project Frog Inc. delivers advanced pre-fabricated componentized buildings that assemble easily on-site, giving architects and builders a fast and cost effective way to create beautiful and energy-efficient buildings. Our San Francisco office is currently seeking candidates for the posting of Project Manager (Structural) in the Product and Innovation team to carry out the development and delivery of high performance component buildings.

The Project Manager (Structural) will be a core member Project Frog’s Product and Innovation team (P&I) consisting of architects, structural engineers, virtual design & construction managers, and software engineers. This individual will be responsible for efficient, scalable, and high quality project execution across the Project Frog suite of products. The Project Manager will carry projects through all phases while working closely Project Frog’s internal, supply chain, and implementation teams, as well as external consultants.

PROJECT FROG
As a venture-backed company headquartered in San Francisco, CA, Project Frog is revolutionizing the building industry by applying technology and process to overcome the inefficiencies inherent to traditional construction. More than just a forward-thinking company, we are a team using each other’s strengths and knowledge as resources to create bright, inspiring and sustainable structures with minimal environmental impact. We are award-winning business professionals, researchers, product designers as well as accomplished entrepreneurs and innovative builders who are looking for bright people to join our team. Our corporate culture is collaborative, fun and results-focused while encouraging open exchanges of new ideas and innovation. For more information, visit www.projectfrog.com.

Job Responsibilities:
Minimum Qualifications:
• Managing projects, through all phases. Includes production, project budgets, project schedules, quality assurance, permitting, and construction administration.
• Work closely and coordinate with Architect of Record and external consultant teams (Structural, MEP).
• Create, communicate, and meet project schedules and milestones.
• Provide QA/QC to documents and overall process for continuous improvement and streamlining.
• Drive in-depth + sophisticated BIM models/drawings integrating Project Frog building components and Structural + MEP integration. Coordinate with consultants, clients, and component manufacturers.
• Review fabricator/manufacturer/vendor shop drawing submittals for both architectural and structural building systems.
• Provide Construction Documents and Construction Administration services for architectural and structural building systems.
• Manage customizations of Project Frog architectural and structural building components while coordinating with internal Supply Chain, Construction, and Pre-Construction teams.
• Coordinate with Architectural, Structural Engineering, Supply Chain, Construction and Pre-Construction teams to identify and implement end-to-end process and design efficiencies.

Job Requirements:
• 5-10 years of experience in structural engineering & design practice with project management experience in all phases of projects (SD, DD, CD, CA)
• Experience managing external consultants (SE, MEP).
• Ability to prioritize and manage a myriad of incoming tasks, decisions and deadlines.
• Knowledge of pre-fabricated architectural and structural systems desirable
• Knowledge of US building codes, and construction methods
• Ability to analyze situations accurately and adopt an effective course of action
• Superior communication, collaboration, and interpersonal skills
• Must have initiative required to identify, take ownership of, and solve problems with minimal supervision
• Ability to adapt design and management mindset to the evolving needs of Industrialized Construction practices
• Experience with Revit required; proficiency in Dynamo desired
• Accredited degree in architecture or structural engineering required
• PE not required but a plus

How to Apply / Contact
To apply for this position, please send us a cover letter and your resume to careers@projectfrog.com, with the job title, Project Manager noted in the Subject field. Applicants must meet the above-mentioned qualifications, and live in the San...
Francisco Bay Area (or be willing to relocate), to be considered for this position. Due to the high volume of applications received, we are unable to comment on the status of an individual application. Your application will be reviewed and you will be contacted if you are chosen to move forward in our hiring process.

SAFEbuilt

Job Position: Structural Plan Check Engineer

Job Description: SAFEbuilt has a dynamic opportunity for an experienced Building Plans Examiner with an Engineering background. Our plan reviewers work as part of a team that strives to provide the highest level of service, improvement and community health and safety.

Job Responsibilities:
• Primarily review structural plans for construction projects.
• Reviews plans and specifications for projects to ensure compliance with city, state, and federal laws and regulations. Provide timely oral and/or written communication detailing design and/or construction deficiencies in plans and specifications.
• Provide excellent customer service
• Review building permits with regards to regulations set by the Building Divisions
• Assist inspectors with difficult or unusual code compliance issues and answer questions from inspectors about plan review comments.
• Cultivate, foster, and maintain positive working relationships with directors, managers, supervisors, employees, and other stakeholders to gain their cooperation and support on assigned projects/assignments.

Job Knowledge & Skills:
• Experience/knowledge of wood, concrete, steel and masonry buildings/structures, including CBC, CRC, ASCE7, NDS, AISC, ACI318, ACI530 and AISI standards.
• Experience/knowledge of wood, steel and concrete lateral load resisting systems (SMF, OMF, BRBF, SCBF, wood and concrete shear walls, etc.)
• Experience/knowledge of structural design software (i.e. ENERCALC, ETABS, SAP, RISA, ADAPT, HILTI Profis, Simpson Anchor design, etc.)
• Extensive knowledge of local building codes and current construction procedures/technology
• Interpretation of codes in the field and ability to provide code compliant solutions
• Must possess the ability to positively interact with the other staff members, the general public, contractors, governmental entities, and other clientele
• Excellent verbal and written communication skills are vital
• Good time management, organization, and attention to detail skills
• Demonstrated ability to exercise initiative and a considerable amount of independent judgment
• Strong computer skills including Microsoft Office

Job Education & Experience
• Engineering Degree required
• Experience with wood framed construction preferred.
• ICC Building Plan Review Certification Preferred
• ICC Plan Review Certifications in multiple trades preferred
• Valid driver’s license with good driving record
• P.E. License with emphasis on structural preferred.
• E.I.T. on track to obtain PE license is acceptable.
• 2 years experience in structural design and structural plan review.

How to Apply / Contact
https://jobapply.page.link/4KRx

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Engineering background. Our plan reviewers work as part of a team that strives to provide the highest level of service, improvement and community health and safety.

SAFEbuilt has a 25 year history of providing building department services as a government contractor. Our culture is positive and energetic as we empower people to do what they do best. Join the other highly qualified and motivated individuals who share the common Core Values of Integrity, Respect, Service, Teamwork and Improvement. Learn more at: http://safebuilt.com/

We offer a strong salary and benefits package to reward ability, certification levels, and work experience. Benefits include health, dental, vision, life, and disability insurances, paid holidays, paid time off, paid training, new certification bonuses, a matching 401K Plan, company vehicles and more.

Job Responsibilities:
- Primarily review plans for Capital Improvement projects
- Provide plan review on public works permit applications including: grading, drainage, flood zone and stormwater.
- Knowledge of mapping and conditions of approval according to city ordinance.
- Review plans and specifications for projects to ensure compliance with city, state, and federal laws and regulations.
- Review building permits with regard to regulations set by the department of public works.
- Provide excellent customer service and Issue permits as required.
- Provides technical direction and assistance to inspection personnel relating to field problems.
- Assess and resolve complaints received from clients, applicants, public, designers, and contractors.
- Regularly interacts directly with municipal clients and their staff.
- Attends meetings, educational seminars, and functions relating to building codes.

Job Knowledge & Skills:
- Extensive knowledge of public works and local building codes and current construction procedures.
- Knowledge of California building codes.
- Must possess the ability to positively interact with other staff members, the general public, contractors, governmental agencies, and other clientele.
- Excellent verbal and written communication.
- Good time management, organization, and attention to detail.
- Demonstrated ability to exercise initiative and a considerable amount of independent judgment.
- Ability to prepare written plan review correspondence and update information into company software programs.
- Candidate must be able to handle multiple projects in a fast paced atmosphere.
- Strong computer skills including Microsoft Office.

Job Education & Experience
- Engineering Degree preferred
- ICC Building Plan Review Certification Required
- ICC Plan Review Certifications in multiple trades preferred
- Valid driver’s license with good driving record

How to Apply / Contact
https://jobapply.page.link/A9VW

Strandberg Engineering
Job Position: Structural Engineer
Job Description:
We are currently seeking Project Engineers and Staff Engineers.

Strandberg Engineering is a lively structural engineering firm located in San Francisco. We have a love for beautiful architecture and great design, and want our work (whether visible or not) to have the same standards. Our work includes the design, analysis, and preparation of construction documents for residential, commercial, and mixed-use buildings. We work with a diverse set of architects, contractors, and building professionals from design through construction.

Learn more: www.strandbergeng.com
Staff Engineer
Project technical support with close supervision (including structural design and analysis, computer modeling, calculations, drafting, drawings coordination, construction administration or field support).

Project Engineer
Licensed Professional Civil or Structural Engineer in California.
Project design and coordination with some autonomy.
Structural design and analysis, drawing development, construction administration or field support, close interaction with the design and construction teams.

 Desired Qualifications:
• Knowledge of mechanics of materials, timber, reinforced concrete, and steel design
• Experience in AutoCAD, RISA, and Revit
• Experience in SAFE, ETABS, and Enercalc

 Benefits:
• Competitive salary
• Paid holidays and Paid Time Off
• Matching 401k and Profit Sharing
• Health Insurance
• Wellness program (reimbursement for wellness expenses)
• Semi-flexible hours
• Year-end bonus
• Paid Professional Development (including professional dues and professional licensing exams)

How to Apply / Contact
Please email a cover letter and resume to: hiring@strandbergeng.com

Tipping Structural Engineers
Job Position: Structural Engineer
Job Description:
We are seeking two levels of candidates -- with 1 to 3 years and with 3 to 7 years of professional experience -- to join our team.

Our ideal candidate: you have a master’s in structural engineering and a professional engineer’s license in the State of California, an interest in high-performance seismic and sustainable design, and a knack for “whole-project” seeing. In addition:

• You thrive on collaborating and communicating with others to expand possibilities and create positive contributions.
• You actively seek to grow your interpersonal skills and social intelligence.
• You are adaptable and willing to equally consider the diverse opinions and solutions of others.
• You strive toward excellence and continually innovate for learning and improvement.
• You are self-challenging, evaluating your assumptions with powerful questions and redefining problems.
• You are passionate about contributing to and supporting the long-term vision of the organization you belong to.

You have demonstrable engineering expertise evidenced by:

• a good understanding of the dynamic behavior of structures, including nonlinear behavior;
• an ability to solve engineering problems independently and catch errors before they impact a project;
• proven ability to take independent, responsible charge of increasing proportions of a project;
• an ability to draw, sketch, and detail in ways that convey your design intention and leave little room for misinterpretations by the builder;
• your calculations or analytic reports and presentations employ visual elements to convey the significant aspects of your
findings, considering the audience for which they are prepared;
• a facility with AutoCAD, Revit, PERFORM-3D, RAM Structural System, RAM Concept, and RISA;
• an awareness of project budgets and the ability to judiciously tailor work to meet them;
• a good understanding of current standards of practice, including ASCE 7, ASCE 41, CBC, ACI, AISC, NDS; and
• a mastery of statics.

How to Apply / Contact
If you possess the foregoing qualities, credentials, expertise, and experience, please email to resumes@tippingstructural.com a cover letter illustrating how you might contribute to and thrive at Tipping Structural Engineers, as well as your résumé.