

Seeking structural designers and interns

Our firm

At Maffei Structural Engineering, we enjoy a collaborative work culture and are committed to growing a practice that embraces both design and research.

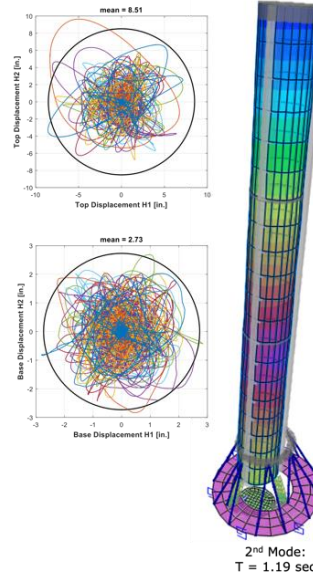
We are a small and growing firm and we love to investigate, ask questions, and re-think challenging issues in structural engineering, leading to efficient solutions and resilient structures and communities.

Our work is a balance of seismic evaluation, new building and retrofit design, expert review, and engineering research. We are industry leaders in advanced seismic analysis, performance-based design, tall buildings, and renewable energy structures.

With our pioneering work in solar energy structures, and as signatories to the SE 2050 pledge, we are committed to environmentally sustainable design and construction.

Our unique benefits include:

- Competitive salaries; Paid time off for volunteering
- Matching of employee charitable donations
- Socially screened (and conventional) 401k investment options, with company matching
- A philosophy of continuous learning including quarterly feedback check-ins for team members, and support for conferences, seminars, and publications



photograph by David Wakely



Position and qualifications

We are looking for smart and enthusiastic engineers to join our team. You will work closely with team members on projects ranging from new building and seismic retrofit design to advanced analysis and peer review. Curiosity about the profession and an eagerness to ask questions is considered valuable.

Qualifications for externs (3 days paid):

- In freshman year or higher in a Civil/Structural Engineering program
- Curious about the Engineering profession and working in the industry

Qualifications for interns (10 paid weeks spring or summer):

- Completion of junior or senior year of undergraduate degree, or in process of obtaining graduate degree, in Civil/Structural Engineering
- Eager to ask questions and learn

Additional qualifications for structural designers (full-time position):

- Master's degree in Structural Engineering
- Skills in teamwork, organization, and communication
- Previous work experience, including volunteering or internships, is desirable

To apply

Please send a cover letter, resume, names and contact information for three references, and a copy of your transcript (unofficial version OK) to Marty McDonough at careers@maffei-structure.com. For more information, see our website at maffei-structure.com/join.

Diversity

Maffei Structural Engineering is an equal opportunity employer. We welcome applications from individuals who identify with groups that are underrepresented in structural engineering.

As a starting engineer, you'll work on a wide variety of projects and will have the flexibility to grow in your technical skills, as well as in marketing, presentation, and project management. New structural designers and interns participate in a structured program of learning activities including scheduled weekly lunches with the firm's senior engineers, Young Engineers' meetings for fun and learning, and an assigned mentor.

About us

Our values include technical excellence, continuous learning, active listening, taking initiative, having fun, and welcoming diverse viewpoints.

We pride ourselves on our teamwork and collegial atmosphere. Our small company culture fosters flexibility such that we can all find ways to thrive and work to build our company. Our team members are dedicated to doing good work and having fun together while doing it.

Learn more at: maffei-structure.com

We are committed to achieving a diverse environment in our firm. To cultivate belonging among our talented team members, we provide tailored mentorship, 360-degree-feedback sessions, team activities, and supported volunteer opportunities.



Joe Maffei
 Founding Principal | SE, PhD, LEED AP
 Joe waited until his boys reached first grade before teaching them the term "play hooky."



Karl Telleen
 Associate Principal | SE, LEED AP
 Karl swam from Alcatraz without a wetsuit once. Once was enough.



Lawrence Burkett
 Senior Technical Specialist
 During the summer months, Lawrence enjoys searching the Sierras for hidden swimming holes..



Ashish Rathod
 Structural Designer
 Ashish believes pomegranate is not a fruit, it is a task.



Ethan Chiu
 Structural Designer
 Ethan views sneakers like he views the ductility of buildings. You can never have enough.



Sania Khan
 Structural Designer
 Sania often finds herself getting lost in new places. She calls this taking the scenic route.



Maggie Fleming
 Accounting Manager
 Maggie loves baking and accounting—both depend on accuracy and attention to detail for sweet success.



Noelle Yuen
 Principal | SE
 Noelle loves the water – swimming, boating, snorkeling, splashing – and last summer tried surfing for the first time!



Andreas Schellenberg
 Associate Principal | PE, PhD
 Andreas builds pirate-forts for his daughter and beehives for his wife. He is allergic to bees but not pirates.



Rob Ward
 Senior Engineer | SE
 Rob once marched through Vienna playing a trombone.



Marty McDonough
 Structural Designer
 Marty once learned how to ride his bike without using hands or feet at the same time. He later learned he should not try this again..



Sarah Chen
 Structural Designer
 Sarah enjoys playing Dungeons & Dragons. She loves adventuring and solving puzzles with her party members.



Tracy Tanusi
 Structural Designer
 Tracy considers it her personal mission to save dying houseplants and raise new ones.



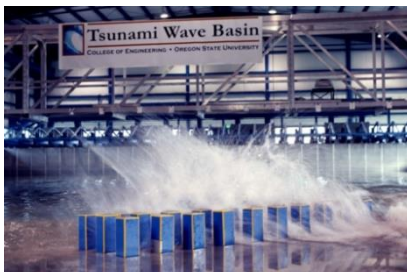
UCSF Health Science Instruction and Research



eBay Battery Building



Transbay Block 9



Tsunami Wave Basin Laboratory

On the boards

Our project backlog is as healthy as it has ever been in both volume and diversity of work. We are excited about these current and upcoming projects.

Design of new buildings and seismic retrofitting

- Design and construction administration of data center buildings.
- Retrofit design and construction administration of the 16-story UCSF Health Sciences laboratory buildings, using fluid viscous dampers and probabilistic performance-based assessment.
- Nonlinear analysis and retrofit design for two 12-story 1960s concrete residential buildings, using carbon fiber reinforced polymers.
- Evaluation and design of a fiber-wrap strengthening of a 1918 30-span concrete bridge at a dam in the Hetch Hetchy system.

Seismic evaluation

- Seismic evaluations of buildings nationwide for the US Fish and Wildlife Service.
- Seismic evaluation and conceptual retrofit design for a corporate client with 700 buildings, working collaboratively with three other top structural engineering firms.
- Seismic evaluations and ratings of structures for UC campuses.

Peer review and plan check

- Peer review of tall buildings ranging from 350 ft. to 620 ft. in height, reviewing nonlinear analysis and performance-based requirements.
- Structural plan check for projects ranging from high-rises to emergency tents for COVID-19 testing.
- Peer review of renovation of a unique long-span historic building for a technology client.

Research, earthquake ground motions, and solar energy structures

- Leading the technical development for the City of San Francisco's concrete building safety program.
- Evaluating solar energy sites for San Francisco's renewable energy initiative, reviewing building roof capacities and establishing structural criteria.
- Peer review of wind tunnel testing for rooftop, ground-mounted, and tracking solar structures.
- Establishing seismic standards for hi-tech clients.
- Consulting on hydro-dynamic hybrid analysis and testing of tsunami effects, at the pioneering wave-flume laboratory at Oregon State University.
- Consulting on hybrid nonlinear analysis and testing of concrete bridge columns.
- Development of improved ground motion selection and scaling for nonlinear analysis.