

March | 2023



March 2023 Equilibrium

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March Chapter Check-In

After every SEAW State Board of Trustees meeting, each SEAW Chapter will share its status report with Equilibrium. Here is what the chapters have been up to for the last few months:

SEATTLE, by President Tyler Winkley and Evan Jordan, YMG

The Seattle Chapter recently welcomed three new life members to SEAW:

- Anne McAteer-Brown
- Rick Fine
- Chun Lau

Please join us in welcoming our new life members. We are grateful for their many years of commitment to SEAW and hope to continue being a valuable resource and community throughout their life membership. We look forward to seeing our new life members at the June social where we will formally announce their membership.



In February, SEAW and the Washington ACI Chapter teamed up for a joint meeting which presented the three new "ACI Centers of Excellence." Photo by Evan Jordan.

The Seattle chapter is back to in-person meetings. January began with the annual student showcase, which was the first in-person student showcase since before the pandemic. It was a significant undertaking by the YMG to restart this esteemed tradition. Special thanks to the YMG President Evan Jordan for his leadership and perseverance throughout the process of organizing the event. Evan also provided an excellent recap of the event in the February Equilibrium; check it out if you missed it!

In February, SEAW and the Washington ACI Chapter teamed up once again to deliver another successful in-person event. This year's event took place at the Museum of Flight and featured Cary Kopczynski, founding Principal and CEO of Cary Kopczynski & Company (CKC).

Mr. Kopczynski discussed the new ACI Centers of Excellence that are independent research organizations dedicated to advancing the practice of concrete design and construction. Each center addresses challenges facing the economic and environmental sustainability of the concrete industry. The centers will pull from ACI's technical and financial resources, and are listed below:

- **NEX** – This is the first of the excellence centers and was created to advance the use of non-metallic construction materials. Non-metallic materials notably include fiber reinforced polymer (FRP) composite and reinforcing bars.
- **NEU** – Concrete is a substantial contributor to global carbon emissions, predominantly due to the process of manufacturing cement; NEU is focused on researching and developing solutions geared towards reducing, and ultimately eliminating, carbon emissions (carbon neutrality).
- **PRO** – Created to improve the constructability and efficiency of concrete construction. This center is dedicated to addressing the disconnect between those designing concrete structures and those who build them.

SEAW thanks Mr. Kopczynski for his time sharing ACI's latest advancements with membership and the Washington ACI Chapter for organizing the event.

Below are the upcoming chapter events for March and April:

- March Virtual Meeting – “Transition of the PE Structural Exam to Computer-Based Testing (CBT)” – Tuesday, March 7th from Noon-1pm. Lunchtime webinar!
- April Chapter Meeting – “Advancements in SpeedCore: from Rainier Square to 200 Park” – Wednesday Evening, April 19th – Annual Joint Meeting hosted by ASCE. Details coming soon!
- Beginning in April, the Younger Member Group will be hosting a monthly Happy Hour Series at local engineering firms throughout the remainder of 2023. The theme of the Series is “Be a Part of the Conversation.” During the happy hour, firms are encouraged to present any exciting new projects, products, and technology they are developing, as well as any innovations or ways they are changing the industry. Host firms have been set! Keep your eyes peeled for upcoming announcements regarding the series and you and your coworkers are encouraged to join!

Finally, the Seattle chapter successfully elevated the Refresher Course committee to the state level via the Education Committee. This promotion allows all SEAW members to take advantage of this valuable resource, not just Seattle chapter members. For historical context, the Refresher Course was created to help prepare engineers who were taking the SE exam, and it took place in the mechanical engineering building at the University of Washington's Seattle campus (we're still trying to understand why it wasn't in the civil engineering building next door...). The course contains several topics related to the SE exam and is taught by licensed structural engineers who have significant experience in the topic they are presenting. While one can see the value in a course like this, the in-person nature of the course limited its audience to those in the Seattle area.

Recognizing an opportunity for growth, Mark Whiteley and the Refresher Course committee members transitioned to a virtual model, which was implemented the year prior to the pandemic. This approach reduced expenses, allowing SEAW to offer the course at a significantly reduced rate compared to other SE prep courses. The virtual model also eliminated travel time and made the course more convenient than ever to attend.

At this point, Mark and his team felt it was time to pass the torch to someone else to lead the Refresher Course. Since the course was now virtual, the Seattle chapter identified another opportunity for growth by taking it to the state level and offering the course to all SEAW members. The Seattle chapter worked with Mark and reached out to the Education committee chairs, Theresa Daniel and Morgan Wiese, who were excited about the opportunity to lead the refresher course.

We would like to thank Mark Whiteley and his team for their significant contributions to the Refresher Course over the last 20 years, not just as the chair but as a presenter as well. We would also like to thank Theresa and Morgan for taking on this important task and we look forward to seeing the course continue to grow and evolve under their leadership.

SOUTH CENTRAL, by President Matt Leslie

The South Central Chapter held its last dinner meeting on February 9 at Snipes Mountain Restaurant and Taphouse. We shouted and

cheered to welcome our new member, Glenn Denman, who had been freeloaded for quite some time but finally took the plunge. We're bursting at the seams now.

Tony Vader's disembodied voice issued forth from the large screen TV and gave a presentation on tainter gates on dams. We have some big ones on the Columbia. Among other things, we learned that pin friction is a big deal in the analysis, design, and performance of tainter gates.

This very same Tony Vader is spearheading the effort to organize the "Welded Connection Design Seminar," with Curtis L. Decker, Ph D, PE, SE, on May 24 in the Tri-Cities. Registration for SEAW members and beyond will be open soon, if it's not already.

I had the Mushroom Swiss Burger with a wedge salad. It was juicy and delicious.



The Wanapum Gates is an example of tainter gates on dams, which the South Central Chapter learned more about in February. Photo provided by Matt Leslie.

SPOKANE, by President Matt Hoit

The SEAW - Spokane Chapter's 2023 season has been going strong. Our February meeting featured a Local Project Showcase. Five of our local firms provided 10-minute presentations showing the types of unique and challenging structural projects being designed and built on the eastern side of the state. Given the great feedback from the 40+ engineers in attendance, it looks like this will become an annual event! We have great topics and speakers lined up on the spring schedule and are already working on the May Vendor Social. If you are an engineer in the Spokane make sure to come to our next meeting on March 21st. You can email our Chapter at SEAWSpokane@gmail.com for more information.

SOUTHWEST, by President Jared Plank

The Southwest Chapter has a great program for the remainder of the 2022-2023 year. We have had some fantastic meetings, presentations, and site visits and it's been nice to be back in person. We are thankful for our members who have taken the time to come to our events, participate, and help spread the word. We need you! We have two more events to finish out our year and we are hopeful that we'll have great showings yet again. See below for some brief updates on what's going on with the Southwest Chapter and see you ALL at our next event!!



Join the SEAW SW Chapter for a night at the Tacoma Rainiers!

- **Next Chapter Meeting/Site Visit:** March 16th, noon-1:30 at American Plywood Association in Tacoma. Come join us for lunch and witness a live test. See your email for updates on this event.
- **Chapter Board:** Below are our current openings for the board. Please let me know if you are interested in serving on the board or helping with activities:
 - President - Open
 - Vice President – Open
 - Secretary – Open
- **AIASWW/SEASW Combined Rainiers Game:** May 25th, 7:05pm at Cheney Stadium in Tacoma. Come join us for an evening of baseball, food, beverages and fun! Look to your email for more information on signup, etc.
- **Life Members:** Congratulations to Don Scott and Dan Booth, who were both recently approved as Life Members for the SW Chapter.



Be sure to join the SEAW SW Chapter March lunch meeting which will be a live test with the American Plywood Association.

We look forward to seeing you all soon! Please put our events on the calendar and plan to attend. We know you are all busy, but taking some time out for yourself will be worth it!

April Meeting

Save the Date!
SEAW Seattle Chapter's April Virtual Meeting
Annual Joint Meeting hosted by ASCE
Advancements in SpeedCore – from Rainier Square to 200 Park

Date: Wednesday April 19th

Presentation:

Jeremy F. Hasselbauer, PE, SE, Senior Associate with Magnusson Klemencic Associates, will present advancements in SpeedCore. Since starting Rainier Square, MKA has lessons learned which led to advancements with their trade partners to improve cost and ease of both fabrication and erection. Hasselbauer will speak about the coordination challenges and benefits, developments in erection engineering, and construction process from both projects: Rainier Square and 200 Park.

WJE Hosts SEAW YMG "Passport" Happy Hour

By Jessica Lim, YMG

On February 8, Wiss Janney Elstner Associates, Inc. (WJE) hosted the YMG for a very unique happy hour. WJE offered each guest a "passport" to different technical sessions which showed off the variety of technology and specific services WJE provides. The "destinations" included ultrasonic testing of steel connections, concrete forensic evaluation, high-definition LiDAR photogrammetry, thermal imaging, and testing of wooden elements for moisture decay. Each guest who attended a seminar got a "passport stamp" and submitted for a raffle!

Thank you WJE for sponsoring a great event showcasing some of the exciting projects you're working on and gadgets you get to use. It's always fun to take a deeper dive into forensics. Special congratulations to the winners of the raffle: Elliot Holzhauer, Will Bader, and Jessica Lim.

If your company would like an opportunity to showcase some of your projects and sponsor a happy hour, please let us know at seawymg@gmail.com.



*Photo by Anandharam Mourougassamy.
Several YMG members at the February Happy Hour check out WJE showing off their cool drill used to determine the location of decay in a wooden member.*

Richal Smith Legacy Gift Supports SEFW, DEI

By Angela Gottula Twining

The Structural Engineers Foundation of Washington, the SEAW Scholarship Committee, and the SEAW DEI Committee are all honored to come together to support the new SEAW DEI Scholarship opportunity, which was made possible by a generous donation from the estate of B. Richal Smith. Richal passed away in June 2021 and his gift to SEFW presented ideal circumstances to make the DEI scholarship a reality.

The DEI committee, led by Lisette Terry, has worked tirelessly to create and publicize the scholarship opportunity, which will award a younger student from a Washington community college who may have a disadvantaged background. The scholarship will include funds from both SEFW and Richal's legacy fund, and will include an internship/job experience for the selected individual.

Richal was born in Maui, Hawaii, in 1932 and left to attend Washington State University where he received degrees in architectural engineering and civil engineering. He married his sweet wife, Karen, just after graduation. After two years in the Army, they settled in Seattle where Richal began practicing as a structural



Karen and Richal Smith. Thank you to Richal

engineer. They had two children, Jamie and Norm.

for his legacy gift, which will support the new SEAW DEI Scholarship.

Aside from his time as a professional structural engineer, Richal was passionately committed to volunteerism and assisting underdeveloped communities. He served on the King County Disaster Team and visited the Philippines in the 1980s. He worked for FEMA as a reservist and assessed many damages caused by earthquakes, flooding, or other disasters. After his son participated in an organization that sent high school students to Latin America to volunteer with healthcare projects, Richal too committed to volunteering and even worked to learn Spanish. He fell in love with Guatemala and visited the country at least 40 times, volunteering with Agros International and Engineering Ministries International. He also volunteered in Nicaragua and other locations in Latin America, working on community buildings, schools, and hospitals. Richal completed repair and mitigation efforts for public buildings, researched building codes, and trained and worked with construction professionals in the local Latin American areas. It was important that the people of the areas where he served had tools for success in the future for their communities.

Richal's wife Karen, the SEFW Board, the SEAW Scholarship Committee, and the SEAW DEI Committee all agree that Richal's gift helped establish the DEI Scholarship and showcases Richal's commitment to helping wherever possible.

"Richal did love engineering, that is for sure," his wife Karen said recently. "I am learning how there are a lot of people out there who are hard workers and bright and they just need a little push of help out there to help them be qualified in a particular field."

Richal would say to SPEND IT! This gift will fund the first few years of the DEI Scholarship, and in future years SEFW will continue funding the award with SEFW scholarship funds and any other donations made for this specific purpose.

If you'd like to contribute to this DEI Scholarship fund, please contact SEFW at admin@sefw.org. We are all so pleased to continue to honor Richal and support the structural engineers of the future.

What do you know about the Northwest Conference?

By Darrell Staaleson

The Seattle Chapter of SEAW is excited to be the host for the 2023 Northwest Conference, "Innovation in Structural Engineering," taking place this year at the Bellevue Hilton on September 14 and 15.

The Northwest Conference is held annually, although it was canceled for three years during the pandemic. The Northwest Conference serves all of the Structural Engineers Associations of the northwest area of the United States and into Canada, including Washington, Oregon, Idaho, Montana, and British Columbia.

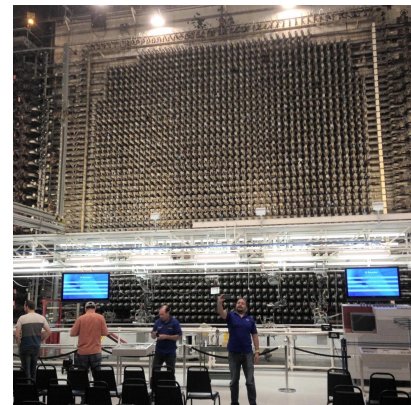
The purpose of the Northwest Conference is to provide a forum for engineers in our region to learn from other engineers in the region and gain from their ideas and experiences, but also to build friendships and business networks, and strengthen our local Structural Engineers Associations. We want to uplift the members of our profession. Everyone should come away from the Conference inspired for the coming year. As a teacher of mine from long ago said, "I want for you to stand on my shoulders!"

Since inception, the organizations have taken turns hosting and planning the Northwest Conference. The past several conferences have been:

- 2015, Idaho, "Jump Into the Future"
- 2016, Montana, "Back to School, Under the Big Sky"
- 2017, British Columbia, combined with the IABSE Symposium, "Engineering the Future"
- 2018, Spokane/South Central, "Knowledge is Power"
- 2019, Oregon, "Panic! In the Code Change"

The Northwest Conference Committee will decide who will host the Conference for 2024.

Of these events, one memorable and outstanding conference, in my opinion, was the Spokane/South Central "Knowledge is Power" conference in 2018. It was held in Richland and John Tate served as



SEAW Member Eduardo Avelar takes a selfie at the Hanford B Reactor during a site visit during the 2018 Northwest Conference. Photo by Darrell Staaleson.

The NWCMA hosted a “hands-on” masonry apprentice training event for our young members. The masons demonstrated how to lay down a mortar bed: one deft hand flick and a nearly perfect mortar bed of about 24 inches – didn’t really look difficult at all. And then, the young engineers from YMG gave it a try. Um, well, they needed more practice! It was excellent example of the intersection of engineering with construction. The masonry contractors also gave a short presentation about designing with “constructability” in mind. That was valuable for our young engineers and a good reminder for senior engineers.

At dinner, we had a presentation from a National Parks Ranger who had been an engineer in the nuclear industry. Upon retirement he transitioned to the NPS with focus in the Manhattan Project sites, one of which was the Hanford Site. At dinner, I had the pleasure of sitting next to our guest speaker. He talked about the Fukushima Nuclear Accident and the poor decisions that led to it. You never place the emergency backup generators in a location that makes them susceptible to the same hazard as the facility they are protecting! The generators were scheduled to be relocated above the inundation zone, but that doesn’t excuse the fact that they should never have been built at the low elevation in the first place. Do you really need a code to tell you that? The consequence of that poor decision was that one of the largest cities on the planet - population of 14 million - almost became a nuclear dead zone. That interesting and useful discussion resonated with me and changed my view of the concept of resilience. Then, his lecture later that evening presented history that I had not known and provided a great preparation for our visit the next day to the Hanford Site – Reactor B. My wife even flew over to visit Hanford, as well. We both greatly enjoyed the tour.

For this year, the conference program will include technical presentations by engineers from the Northwest region and vendor speakers. This year there will be 10 abstract presentations and 6 vendor speakers. At this writing, social events and technical tours are being developed. Look for highlights of these in a future Equilibrium!

If you have any questions or comments, feel free to contact any member of the Northwest Conference Steering Committee. Thank you to these individuals for all their hard work and dedication to this event!

- Chun Lau (Chair)
- Scott Douglas (Technical Subcommittee Chair)
- Michelle Yee
- Jessica Lim
- Shalini Prochazka
- Darrell Staaleson

Prepare for an Emergency; Status Update on Volunteers in Turkey

By Joyce Lem, DPRC

Complete 1 activity a month to prepare you and your family for disasters!

 Make a Communications Plan	 Create an Action Plan	 Store Water	 Build Grab & Go Kits	 Secure Important Documents	 Be 2 Weeks Ready
 Learn Fire Safety	 Learn Utility Safety	 Store Under the Bed Supplies	 Practice Drop, Cover, and Hold On	 Prepare to Shelter in Place	 Conduct a Home Hazard Hunt

This activity guide from Disaster Ready Washington helps individuals prepare for an earthquake, one month at a time.

As we consider the horrific damage from the recent earthquakes in Turkey, we are reminded to be vigilant about our own personal preparations for a potential major earthquake in the Pacific Northwest. Current recommendations include having food and supplies for at least two weeks. Many websites feature plans for getting ready, such as the Washington Emergency Management Division page

DisasterReadyWashington, which features a “one activity per month” approach to preparation. Check it out to jumpstart your personal emergency preparedness plan.

In addition to preparing your household, you may want to consider becoming trained in how to do post-disaster building safety evaluations and join the WAsafe Building Safety Evaluators (BSE) registry. As a structural engineer, you have a valuable set of technical knowledge which will be needed to help our community following a disaster like a major earthquake.

WAsafe is a statewide coalition with a mission is to train, enroll, and aid in the dispatch of volunteer building safety evaluators to help local building officials in Washington respond to disasters. WAsafe BSEs register themselves in **WAserv**, the electronic registry for enrolling, managing, and dispatching volunteers. WAsafe volunteers respond to requests for BSEs from Washington’s Emergency Management Division.

You may have received or heard about an announcement to perform ATC-20 post-earthquake building safety evaluations as a volunteer in Turkey. All Hands and Hearts, the non-governmental agency with whom we were coordinating, was **not** able to obtain an invitation to perform this work. We were informed that Turkish governmental entities will not allow outside professionals to aid in their building safety assessment program. **The call for ATC-20 trained volunteers is suspended** A limited number of engineers and architects who showed an interest may still travel to Turkey to participate in other types of relief work. All Hands and Hearts understands the value of the skill set that engineers and architects bring to a disaster response. They are a well-established and respected disaster relief organization with whom others we know personally have volunteered. You can read about their work in Turkey and make much needed donations here: [All Hands and Hearts | Volunteer-Powered Disaster Relief](#)

If you are not yet registered as a WAsafe BSE, thenext WAsafe training will be held on March 20th at the Annual Education Institute (AEI), an annual multi-day event of the Washington Association of Building Officials (WABO). Details about the AEI and pricing can be found here: <https://www.wabo.org/2023-aei-summary-page>. Classes are in-person; the AEI is in Lynnwood. Training is primarily based on ATC-20 “Post-earthquake safety evaluations of buildings,” the internationally-recognized standard. Look for additional announcements in Equilibrium when other training dates are confirmed.

For more details about WAsafe and the Disaster Preparation & Response Committee (DPRC), please see the SEAW Disaster Preparation/Response Committee (DPRC) webpage <https://www.seaw.org/disaster-prep-response-committee> To receive committee announcements and meeting agendas, join the DPRC email list (instructions are on the webpage). Join us at our monthly committee meetings -- online on the third Tuesday of the month, Noon – 1pm (links given in the emailed agendas). Our committee welcomes new members and those who want to find out more.

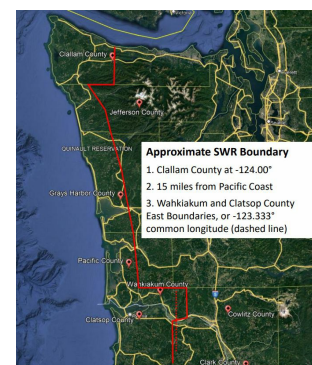
If you have any questions about the WAsafe program, please feel free to contact Paul Brallier Paul.SEAW@wasafecoalition.org or joyce.seaw@wasafecoalition.org

Wind Committee White Paper Approved

By Scott Douglas, Wind

The Wind Engineering Committee submits the following report for March:

- **Washington/Columbia Special Wind Regions (SWR) Study** – The SEAW White Paper WEC #3-2023, *ASCE 7 Special Wind Regions in Washington State*, was approved by the SEAW State Board at their February 3 meeting, and has been posted on the SEAW website. The recommendations in White Paper WEC #3-2023 will now be submitted for adoption by the Washington State Building Code Council, and eventual inclusion in ASCE 7 and the IBC.
- **City of Bellevue Kzt Map** – The SEAW WEC is now focusing on the generation of a Kzt Wind Load Factor map for the City of Bellevue’s consideration. It will replicate the existing City of Seattle Wind Load Factor Map Wind Load Factors - SDCI | seattle.gov. If adopted the map will facilitate a rapid determination of Kzt and shoreline exposure factors in the City of Bellevue.
- **Update to the 2004 SEAW commentary on wind code provisions (ATC 60)** – The NCSEA CAC Wind Engineering Subcommittee is proceeding with this update effort. An outline is being developed for the new commentary in order not to duplicate commentary in ASCE 7 or other publications.
- **Participation** - All SEAW members, whatever their experience, are encouraged to participate at in WEC meetings. Please contact the WEC chair, Scott Douglas sdouglasscott@gmail.com,



The approximate boundary for the Special Wind Region study, as outlined in the SEAW White Paper, approved in February.

to join the SEAW WEC and receive additional information and announcements on Committee activities and actions.

- **Next Meeting** – Friday March 17 from 12:00 noon to 1:00 pm. Meeting will be virtual via the following Zoom link: <https://us02web.zoom.us/j/84452068429?pwd=My9tOVFMSldsbjdWS1FIR3JNbE9zQT09>

Meeting ID: 844 5206 8429
Passcode: 596869

SEAW White Papers Renumbered

By Scott Neuman

The collection of SEAW white papers published on the SEAW website are in the process of being re-labeled so they can be organized in a more logical fashion. From now on, SEAW white papers will be numbered in the format below:

White Paper [Committee Acronym] - #[Committee Sequence] – [Year Published]

Look for all the updated white papers shortly on the SEAW Website at the address below:
<https://www.seaw.org/codeswhite-papers>



Codes/White Papers

SEAW White Papers

White Paper EEC-#1-2009: November 2009 **Special Reinforced Concrete Shear Walls as Building Frame Systems for Mid- and High-Rise Buildings** - SEAW Earthquake Engineering Committee

White Paper EEC-#2-2011: April 2011 **Code Comparison for Seismic Design from the IBC 2006 to IBC 2009** - SEAW Earthquake Engineering Committee

White Paper EEC-#3-2019: June 2020 **Cross-Laminated Timber Diaphragms** - SEAW Earthquake Engineering Committee

White Paper EEC-#4-2022: November 2022 **Voluntary Use of Multi-Period Response Spectra for Determination of Seismic Hazard** - SEAW Earthquake Engineering Committee

SEAW Earthquake Engineering Committee
White Paper EEC - #4 - 2022

Voluntary Use of Multi-Period Response Spectra for Determination of Seismic Hazard

SEAW Earthquake Engineering Committee Structural Engineers Association of Washington	WHITE PAPER EEC - #4 - 2022
Title: Voluntary Use of Multi-Period Response Spectra for Determination of Seismic Hazard	Issue Date: November 24, 2022
Abstract: This white paper provides guidance for structural engineers in Washington State using the Multi-Period Response Spectrum (MPRS) method as allowed by Washington State Building Code Council Emergency Rule-Making Order WSR 22-11-010, and presents design examples for how the code amendment is intended to be used.	Task Group Members: Carson Baker, PE Michael B.W. Chamberlain, PE Susan Chang, Ph.D, PE Kai Ki Mow, PE, SE Scott Neuman, PE, SE Hamilton Puangnak, PE

This snip from the SEAW website shows the new look of the white paper listings.

The new SEAW white paper number protocol will include the SEAW committee, paper sequence, and the year published.

Calendar

March 7, 2023

SEAW Seattle Chapter's March Virtual Meeting
Transition of the PE Structural Exam to Computer Based Testing (CBT)

Register Now!

April 19, 2023

Save the Date!
SEAW Seattle Chapter's April Virtual Meeting
Annual Joint Meeting hosted by ASCE

Save the Date!

September 14-25, 2023
2023 SEA NW Conference
"Innovation in Structural Engineering"



Hilton Bellevue
300 112th Ave SE | Bellevue WA 98004

[More Information](#)

Welcome New SEAW Members!

Welcome

Glenn Denman

City of Yakima Associate Member in the South Central Chapter

Lan Nguyen

SSF Engineers

Associate Member In the Seattle Chapter

Teagan Allen

SSF Engineers

Associate Member in the Seattle Chapter

Employment Opportunities

Are you currently seeking employment as a structural engineer, senior manager, or a senior engineer technician? Check out our job board for [current employment opportunities](#).

Bridge/ Structural Engineer

Company: Otak

Location: Redmond, WA/ Vancouver, WA



Description & Details:

Otak is hiring a Bridge/Structural Engineer to join our team! Our Bridge/Structural Engineer collaborates with multi-discipline engineers, planners, architects, and public and private clients to design solutions for bridge and structure projects of all types, sizes and levels of complexity. From designing pedestrian and vehicular bridges; facilities at local, state and national parks; community transit services; and site development structures, we continually seek the best balance among the demands of form, function, safety, sustainability, constructability, schedule and budget.

Otak is a multidisciplinary design firm. We are a highly collaborative team with award-winning multidisciplinary expertise in urban design, architecture, planning, engineering, and construction management. With deep roots in the Pacific Northwest while expanding rapidly to Colorado, we have built a strong reputation for excellence in smart urban growth planning, sustainable design and development, and innovative transportation solutions.

This position may be based out of either our Redmond, WA or Vancouver, WA office.

To learn more about this position, please visit: [Bridge/Structural Engineer - Redmond, WA](#) or [Bridge/Structural Engineer - Vancouver, WA](#)

Structural Engineer

Description & Details:

MLA Engineering's 24-year history of serving public and private industries has elevated MLA to an exceptional firm that is highly regarded in the Pacific Northwest and the USA. The diversity of project types and relaxed professional culture makes this a unique opportunity for an engineer who loves to learn, collaborate, and seeks rewarding work. A candidate with a solid foundation in engineering principals and is skilled in using state-of-the-art software, designing with all major construction materials, and communicating effectively on a project team will be an excellent fit.

Our Seattle staff enjoys designing diverse projects that require critical thinking and creativity. MLA is known for engineering public infrastructure, aquarium and zoo facilities, and community buildings. We combine the opportunity of engineering unique and exciting projects with work flexibility, a cooperative culture, and value that employees feel in a small business atmosphere.

Qualifications required:

- Bachelor of Science Degree (Masters of Science preferred);
- Strong technical and analytical skills;
- Intuitive and practical;
- Using REVIT as a design coordination tool;
- Excels in a team environment.

MLA is an equal opportunity employer. Our comprehensive benefits package includes a competitive salary, 401K matching contribution (up to 4%), medical, dental, vision insurance, and HRA account.

Website: www.mlaengineering.com

Please send your résumé and cover letter to info@mlaengineering.com.

Structural Design Engineer

Company: Quantum Consulting Engineers, LLC
Location: Seattle, WA



Description & Details:

Quantum Consulting Engineers, a structural engineering firm that has been part of downtown Seattle for over 20 years, is seeking a project engineer with a minimum of 2 to 6 years relevant experience. Experience should include designing a variety of residential and commercial building types and structures in a wide range of building materials, including concrete, steel, masonry, and wood-frame construction. Familiarity with structural detailing, seismic design, and evaluation of existing structures is a plus. Candidates must have earned a bachelor's degree in engineering. A professional engineering (PE) license is preferred. Excellent verbal and written communication skills are required.

We offer a friendly and supportive work environment focused on teamwork, collaboration, and respect, with opportunity for growth and advancement. We firmly believe that everyone truly makes a difference and encourage ideas, input, and insight on projects with an emphasis on client relationships to provide the best possible service.

Benefits include medical, dental, and vision insurance coverage; paid vacation, holiday, and sick leave; a SIMPLE IRA plan, a cafeteria plan; pre-tax transportation benefits (ORCA); and funds for professional licensing and seminars. Competitive salary commensurate on experience.

For general company information and profiles of some of our noteworthy projects, visit our website at www.quantumce.com. To apply, please send your resume and cover letter to HR@quantumce.com. No phone calls please.



We're Hiring

Design Engineers Project Managers

Email jobs@ckcps.com or visit www.ckcps.com/careers

Applying or Renewing your Membership in SEAW

SEAW is organized into the membership categories and their corresponding dues structures listed below. Select the membership category that best fits your status.

Your contact information is shared with our foundation, SEFW.
In order to "opt-out" please [contact](#) the association office. [Click here](#) for our privacy policy.

Join or Renew Today

Please consider making a line-item donation to [SEFW](#) as part of your dues renewal. Special designation can be placed on the donation, so it can be applied to scholarships, disaster preparedness or research opportunities. SEFW fulfills its mission with the assistance of donations from individuals and corporations.

More information on SEFW and its mission to promote structural engineering can be found at www.sefw.org. Thank you for your support!

Structural Engineers Association of Washington

info@seaw.org | **206.338.7376** | www.seaw.org

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