



CONNECTIONS

January 2021 Volume 21 Issue 4

Newsletter of the
Structural Engineers
Association of Oregon

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SEAO has a LinkedIn account and can be followed at <https://www.linkedin.com/company/structural-engineers-association-of-oregon>.

Upcoming SEAO Meetings and Events:

Thursday, January 21, 2021: ASCE/SEI Standards Series 48 Design of Steel Transmission Pole Structures

Speakers: Ken Sharpless & Nick Grossenbach

Time: 10:00 am—11:30 am

Cost: \$49 Member; \$99 Non-member; Students Free with Free SEI Membership

Visit <https://collaborate.asce.org/integratedstructures/sei-standards> for more information.

Wednesday, January 27, 2021: SEAO Excellence in Structural Engineer Virtual Awards Program & Chapter Meeting

Topic: SEAO Excellence in Structural Engineering Awards Program

Speakers: SEAO Awards Committee & Board President

Time: 11:45 am—Networking/Social

Noon — Program Begins

Register online at: <https://www.seao.org/events/jan2021/2020-seao-awards>.

Cost: \$25 Member, \$35 Non-member, \$10 Affiliate Member

PDH: 1 Hour (no credit to Affiliate Member)

See page 3 additional Awards program information.

Tuesday, February 9, 2021: OSU ASCE/SEI Present Performance-Based Design is the Future

Speaker: Don Dusenberry, P.E., SECB, F.SEI, F.ASCE

Time: 6:00 pm—7:30 pm

Cost: Free

PDH: 1 Hour

See page 5 for additional information and how to register.

February 17, 19, 22, 24 & 26, 2021: AISC Virtual Seminars: The Seismic Design Manual Third Edition of the AISC Design Manual & Applications of the 2016 Seismic Provisions—AISC 341

Speaker: Thomas Sabol

Time: Noon—2 pm (Feb 17-24); Noon—1 pm (Feb 26)

Cost: \$300 to SEAO Members

PDH: Earn up to 9 PDHs

See Page 6 for additional information.

Sunday, March 28—Thursday, April 1, 2021: ACI Virtual Concrete Convention Save the Date

Registration to Open soon.

Cost: \$99 Member; \$179 Non-member; Students Free for ACI Student Members

Visit <https://www.concrete.org/events/conventions/currentconvention.aspx> for more information.

CONNECTIONS is a monthly publication of the Structural Engineers Association of Oregon, published to disseminate current news to our membership and others involved in the profession of structural engineering. The opinions expressed reflect those of the author and, except where noted, do not represent a position of SEAO.

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PRESIDENT'S MESSAGE

BY: DUSTY ANDREWS



I would like to wish everyone a Happy New Year. As we say goodbye to a very unique year that many are happy to be done with, I am optimistic about where we are headed. I am proud of our profession and membership, as we have adapted and overcome the challenges put on us to provide for our clients and our employees. Prior to this year, hearing a child in the background of a call had the connotation that you might be playing hooky. Now, my kids pop into my calls all the time. Leniency and adaptability have become the calendar words of the month. I am especially proud of the Board and the volunteers of this organization. As a profession, we tend to structure and processes. As an organization, the way we have always done things was not possible. I can remember the discussions of a breakfast

meeting instead of a lunch or dinner meeting. So many questions about where we would hold it, will anyone come, etc. This group was now faced with the questions of how do we even have a meeting? How do we engage our members and provide value? They have taken on these challenges and succeeded in providing speakers for meetings, improving the website, and many other tasks that benefit our membership. I would like to thank them and you, the members, for supporting those efforts. The Young Members Forum has also adapted and engaged in virtual happy hours. Look for their events in the newsletter and on the SEAO LinkedIn page.

I would also like to thank the Awards Committee. I was talking to Dr. Weiss at Oregon State this fall and he said that preparing to teach an online class is twice as hard as walking into a classroom to give a lecture. He "gave" me the opportunity to present at one of his classes and he fibbed—it's much more than that. I think of that when this group was tasked planning a large gala and then asked to revise it so it could be done online. And, like some of our clients, we waited until the last minute to make that change. The announcement and sign up for the Awards Banquet will be out shortly. It will be a lunch presentation and I encourage you all to sign up and learn about the amazing projects our local design community as provided in the last year. Thank you to Brynn Adkins and JoMarie Farrell, and all the judges that helped make this possible.

It is also that time of year when we renew our SEAO membership. Thanks to everyone who has already renewed. For those of you on the naughty list (usually me), make sure you get the website and renew before we get to call you. Remember, along with all the benefits of SEAO, a portion of your membership fee gives you exclusive access to NCSEA. Along with getting the Structures magazine, NCSEA provides continuing education through a large collection of webinars. NCSEA is also an advocacy group promoting public outreach for the engineering profession while working to improve engagement, retention and diversity and inclusion within the profession (SE3). Lastly, NCSEA is a path to learn and evolve our codes and standards. Many of the SEAO committees mirror the ones of NCSEA. If you want to move the needle and improve the way we design structures, working through these committees is a viable path. If you have a question about the code, you can pose those to NCSEA, and they will forward it to the appropriate committee. There is some powerful stuff for just being a member of SEAO. We are also lucky that this year's NCSEA President, Ed Quesenberry, is in our membership. We can get direct access to him.

As I become to think of myself as the COVID President, I cannot wait to see everyone face to face. We all adapted and conquered a lot in 2020. I look forward to a great 2021 and hopefully seeing everyone in person soon.

Enjoy the moment, Dusty

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SEAO AWARDS LUNCH MEETING ANNOUNCEMENT WEDNESDAY, JANUARY 27, 2021

Please join SEAO for the 6TH Annual Excellence in Structural Engineering Awards presentation. For the first time, the meeting will be held virtually to meet existing public gathering restrictions.

Awards will be presented to the winning projects, as selected by an esteemed panel of independent judges, in the following categories:

- New Buildings Over \$20M
- New Buildings Under \$20M
- Renovation/Retrofit
- Special Use Structures
- Jurors' Favorite

Topic: 2020 SEAO Excellence in Structural Engineering Awards

The Awards Committee will spotlight each submission in each category and announce the winning project. We will plan on allowing each winning team to make a brief statement about the project and put the spotlight on their team. Mark your calendars!

Location: Virtual. A link to the meeting will be sent via email the evening before the Awards program

Time: 11:45 am to Noon—Zoom Social	Cost: \$25 — Prepaid Members
Noon to 1 pm— Awards Program	\$35 —Prepaid Non-Members
	Free — Students

Register at: <https://www.seao.org/events/jan2021/2020-seao-awards>

PDH Credit: One PDH will be recommended for this program.



AD HOC RESILIENCY COMMITTEE UPDATE

BY: ERIC McDONNELL

As discussed in past newsletters, SEAO formed an Ad Hoc Committee in March 2020 to help educate the membership on strategies to reduce the carbon footprint of the built environment. As part of this effort we are instituting an “Education Series” to discuss topics and strategies to reduce the Global Warming Potential (GWP) of the structures we design every day. The first of these is going to be focused on Environmental Product Declarations (EPD’s).

As a reminder we could use all your help in filling out the concrete mix survey (Link: <https://forms.gle/pDVg3vEuXjj7r9eg9>). Your participation in this survey will help the City of Portland help establish a GWP threshold for concrete mixes used on future City owned or solicited projects. We are hoping for a big push in the next month as the discussion on where to set the threshold will begin this year.

We also continue to look for individuals interested in joining the committee. Thank you in advance for your help. Contact: eric.mcdonnell@holmesstructures.com

YMF UPDATE

BY: NISARG MEHTA

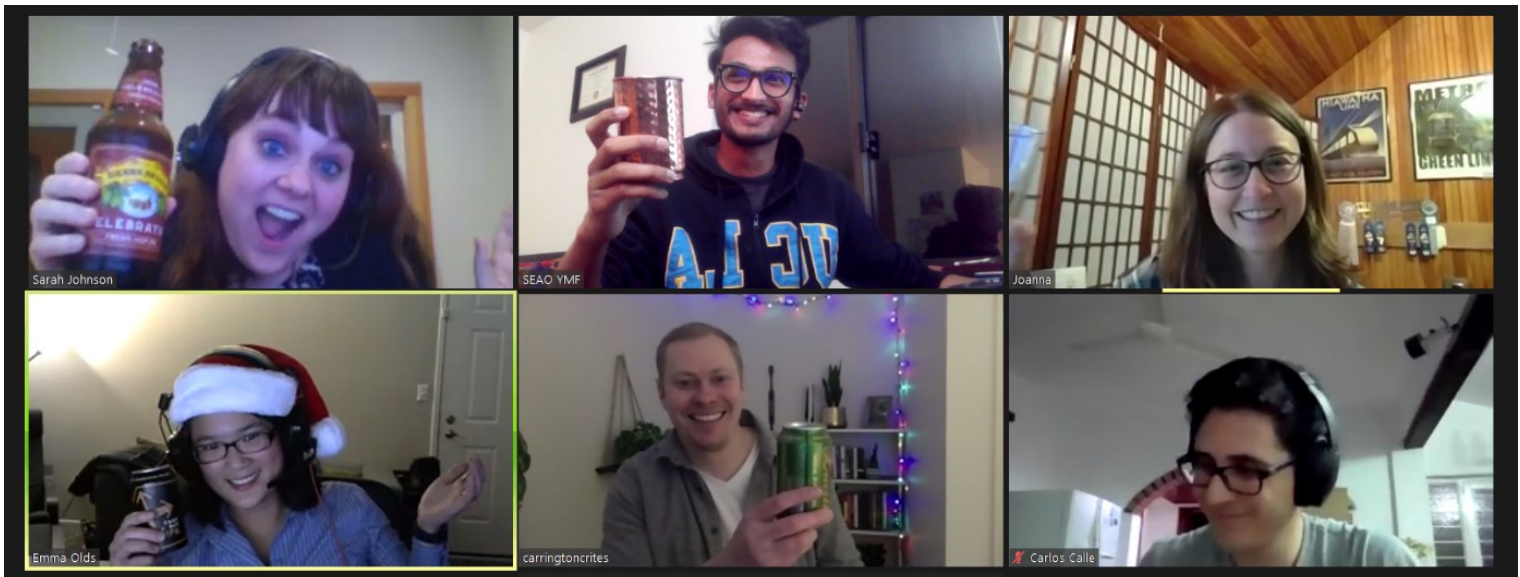
YMF met last year via a virtual happy hour on December 17, 2020, to say goodbye to 2020 for good! It was a great time, as always, and the conversations did not seem to end as we looked back on 2020.

The next virtual happy hour will be on Thursday, January 21 via Zoom. YMF will be sending out the Zoom invite to members soon. We are excited to see everyone in the new year.

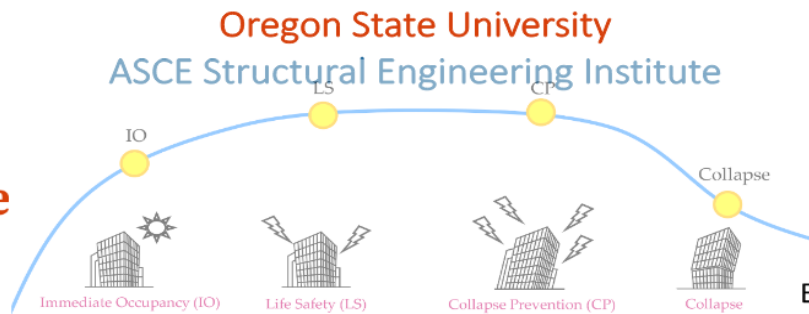
The link to join the happy hour is:

<https://us02web.zoom.us/j/5306480166?pwd=RTE3dVJwUVJwLzZkZLZ4L3FLYTNOQT09>

Young members can also request to be added to the YMF email list to keep up on our upcoming events by emailing Nisarg Mehta at nmehta@dc-engineers.com or Sarah Johnson at sarah@mstructural.com.



OREGON STATE UNIVERSITY SEI STUDENT CHAPTER
FREE ZOOM PRESENTATION
TUESDAY, FEBRUARY 9, 2021



PERFORMANCE-BASED DESIGN IS THE FUTURE

Performance-based design (PBD) requires that structural systems meet specific performance objectives. PBD reverses the design process by defining the end goal as the starting point. The engineer engages creativity/innovation, science and structural/mechanics principles, unencumbered by unnecessary and often counterproductive prescriptive requirements, to identify optimal solutions to multiple, sometimes competing, objectives. The design is completed by demonstrating performance through analysis, simulation, and/or testing.

Date: Tuesday, February 9, 2021

Time: 6:00 pm to 7:30 pm PST

Registration: <http://groups.engr.oregonstate.edu/asce/structural-engineering-institute-student-chapter>

Continuing Education Credits: 1 PDH

Zoom ID: 939 6698 2127

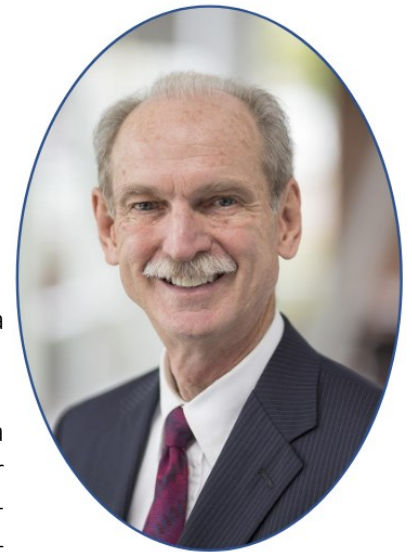
Password: PBD

Contact: Thomas Miller at thomas.miller@oregonstate.edu

Speaker: Don Dusenberry, P.E., SECB, F.SEI, F.ASCE

Don will discuss how PBD impacts the design profession and initiatives to encourage a transformation from prescriptive to performance-based approaches.

Don Dusenberry joined Simpson Gumpertz & Heger, Inc. in 1975, and he served as a Consulting Principal. He has taken part in numerous investigations, analyses, and peer reviews of buildings, bridges, and other structures. He has extensive experience in investigations of failed structures. Don is an active participant in professional organizations, and he served as President of the Board of Governors of ASCE-SEI. He chairs a committee developing a course to advance the profession from prescriptive to performance-based design practice. Don has written on failure investigations and structural performance under extreme events, including blast, fire, and disproportionate collapse.



This event is made possible by the [SEI Futures Fund](#) in collaboration with the ASCE Foundation.

2020 NCSEA STRUCTURAL ENGINEERING PRACTITIONER SURVEY

How prepared are college grads to work in your firm?

You are invited to participate in the [2020 NCSEA Structural Engineering Practitioner Survey](#). Your survey responses will assist [NCSEA's Basic Education Committee](#) (BEC) in communicating with universities, current students, and rising professionals about the attributes sought in new hires by the structural engineering community as well as look for opportunities to supplement education where needed.

The BEC advocates an academic curriculum which prepares students for practice in the structural engineering profession. Additionally, the committee is looking to supplement educational curriculum for structural engineering students by engaging with educational professionals, NCSEA committees, and member organizations, and assisting with activities that promote the knowledge and skills the engineering community views as necessary when entering the profession. **The BEC seeks your input to identify the courses and technical skills required of individuals entering the structural engineering workforce**, as well as the preparedness of today's graduates.

The information gathered will be compared with that from surveys completed in 2016 and 2019 Curriculum Surveys completed by accredited ABET institutions, then shared with the structural engineering community.

DEADLINE to complete the survey is January 31st, 2021.

Thank you,
NCSEA Basic Education Committee

AISC VIRTUAL SEMINAR—3RD EDITION OF SEISMIC DESIGN MANUAL FEBRUARY 17, 19, 22, 24 & 26, 2021

Virtual Seminar: The *Seismic Design Manual* -- Third Edition of the AISC *Seismic Design Manual* and Applications of the 2016 *Seismic Provisions*— AISC 341

FIVE-PART VIRTUAL SEMINAR – Earn up to 9 PDHs

Presented by Thomas Sabol

This seminar introduces the 2016 AISC *Seismic Provisions* and the 3rd Edition of the *Seismic Design Manual*. It highlights proper application of key design and detailing requirements and introduces important technical changes in the recently updated *Seismic Provisions*. Design examples from the new 3rd Edition of the *Seismic Design Manual* will be included.

The seminar reviews general design considerations, performance goals, and role of inelastic and force control elements. The seminar then reviews provisions applicable to all seismic force-resisting systems before an in-depth review of moment frames and braced frames. This seminar is the 2019 Louis F. Geschwindner Seminar series.

Location: Online -- Live only, no recorded option available.

Registration: Information will be provided by SEA0 via email to members in late January.

Price: \$300 to SEA0 Members

Each person must register; there is no group option.

Dates: February 17, 19, 22, 24, and 26, 2021

Times: Noon– 2 pm (Feb 17, 19, 22 & 24)
Noon—1 pm (Feb 26)

Materials: Each registrant will receive access to a PDF file of the seminar slides.

Discounted *Seismic Design Manual* Purchase: The *Seismic Design Manual*, 3rd Ed., is available for purchase with this seminar for only \$75 + Tax and Shipping (a \$100 member value)! Only one discounted Manual purchase per registrant is allowed. Once registered, contact AISC's Eric Martin by phone to place order at 312-670-8311.

MEMBER SPOTLIGHT—BRYNN ADKINS, P.E., S.E.

BY: JOMARIE FARRELL



This month, SEAO's Member Spotlight shines on Brynn Adkins. Brynn has been a active member of SEAO since 2014. She has been working on the Awards Committee since its inception in 2014 and is the current chairperson of the committee—finding judges,

compiling the results, and pulling together the ceremony.

Brynn earned her Bachelors Degree in Civil Engineering and Masters Degree in Structural Engineering from Oregon State University. Since December 2019, she has worked as a consulting engineer at TM Rippey Engineers. Before that she worked at WDY from graduation to 2019.

Brynn enjoys the problem-solving, creativity, and collaborations that occur working in consulting engineering. Especially that “ah-ha” moment you get when you figure out that problem you’ve been trying to solve and everything comes together.

While at WDY, she enjoyed working on the Wilsonville Subaru project and the Brooks Winery. At TM Rippey she is currently working on a large winery project that she is excited about.

She just purchased a new condo and spent the holiday moving into her first new home.

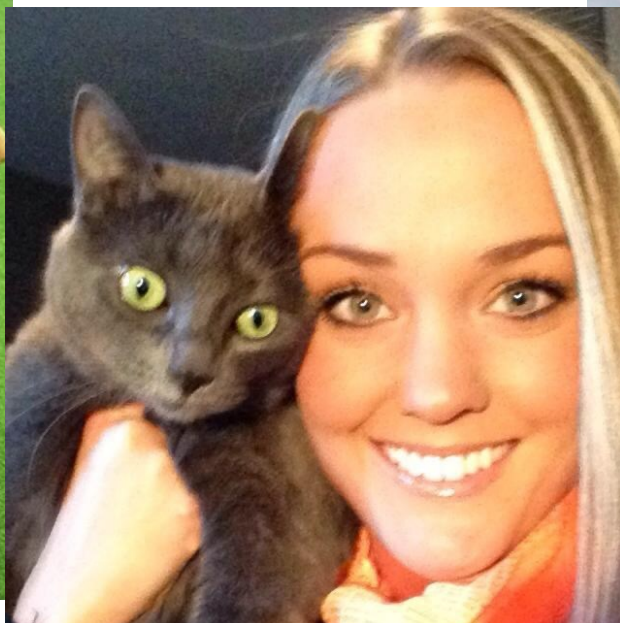
Brynn has one brother, one stepsister, five stepbrothers, and lots of nieces and nephews who she absolutely adores. She also has a cat named Lo who she is “kind of obsessed with” as seen in the photo below.

When not working or volunteering for SEAO, she is an assistant soccer coach for the Westview High School Varsity girls soccer team. She loves coaching. She also plays indoor soccer when COVID is not preventing her from the team activity.

She plays the piano, draws, paddleboards, and runs half marathons (when her friends convince her to). She loves baking and gardening, though she says she is only successful with herbs and veggies—she claims that she kill flowers. She loves working on house projects. She just bought a tile cutter and handsaw and she’s been going nuts with both. She binge watches medical dramas (Chicago Med anyone?) and loves true crime podcasts.

She enjoys traveling. Hawaii is the last “fun” place she was able to visit. She’d love to travel more, but a not-so-fun fact about her is that the only time she has been out of the country is when she went to Canada. Given that it’s difficult to travel right now, she hopes to correct that once travel is safe and not restricted. Oh COVID, how you do affect our ability to expand our horizons!

SEAO is lucky to have such a great volunteer on their team, and the Board is grateful for the time and efforts she gives to our organization. Thanks, Brynn!



SE REFRESHER & EXAM REVIEW COURSE ON-LINE & ON-DEMAND

NCSEA's SE Review Course is completely on-demand. Review course materials and watch the recordings when it is convenient for you for an entire year. Plus, attendees have access to virtual classroom to ask the instructors questions whenever they arise. The NCEES PE Structural Exam Prep Course allows you to study at your own pace but with instant access to the material and instructors. All lectures are up-to-date on the most current codes.

The Virtual Classroom provides you an on-line chat room for course discussion with all the instructors and the students. In addition, students can email instructors directly with questions.

The Course includes:

- 30 Hours of Instruction (8 Vertical Sessions + 10 Lateral Sessions)
- Exam Preparation Tips
- Problem-Solving Skills to Pass the Exam
- Handouts & Quizzes
- The Virtual Classroom
- Exam Study Guide

Cost for NCSEA/SEAO Members: \$495

Non-Members: \$695

Group rates: See <http://www.ncsea.com/education/sereview/>

NEW MEMBERS

Welcome to our new Members!

William Phaup – Emerio Design
Ge Xue – SEFT Consulting Group
Courtney Shea – WDY
Dana Benton – MD Structural

WELCOME TO SEAO!

ASK A QUESTION, GET AN ANSWER

Do you have a code question you would like to ask the Wind Committee or Snow Committee? SEAO is pleased to announce a simple way for Q&A's with technical committees. Email questions to jane@seao.org, and SEAO will direct your question to the appropriate committee chair for a response. Questions and their answers will be made anonymous and available to the membership on the website www.seao.org. Committees include: Seismic, Wind, Snow, Code, Vintage Building, and Special Inspections.

EMPLOYMENT OPPORTUNITIES

VLMK ENGINEERING & DESIGN

Structural Engineer
Portland, OR

VLMK Engineering + Design is accepting applications for an experienced or mid-level Structural Engineer ranging from 3 to 10 years of experience who are passionate about engineering and want to broaden their experience working in a collaborative, multifaceted environment with a variety of project and building types.

If you think this might be you, please see the full posting on our website at www.vlmk.com for additional requirements and the benefits of joining VLMK. If you have questions, please contact Trent Nagele at trent@vlmk.com.

HOLMES STRUCTURES

Senior Engineers
San Francisco and Los Angeles, CA ; Seattle, WA; & Portland, OR

Holmes Structures is a structural engineering firm, with offices in San Francisco, Los Angeles and Portland. We are part of the New Zealand based [Holmes Group](http://www.holmesgroup.co.nz), with offices around the Pacific Rim. Compelled by the possibilities, we are relentlessly pursuing Why – to create what is Best.

We are seeking Senior Engineers for our San Francisco, Los Angeles, Portland, and Seattle offices. Candidates should have a B.S. (M.S. preferred) in Structural Engineering, and 6+ years of related experience. Candidates must possess a valid PE license; SE license is also a plus. Candidates must be fast learners, ambitious, have the ability to handle increased responsibilities, have excellent verbal and written communication skills, and be able to interact effectively with clients, project teams, and colleagues.

Check us out at www.holmesstructures.com and send your resume with cover letter to hr@holmesstructures.com

GRUMMEL ENGINEERING

Structural Engineer
Portland, OR

Grummel Engineering LLC (www.grummelengineering.com) is seeking a Structural Engineer with 4 to 8 years of experience. Candidates should have a B.S (M.S. preferred) in Civil Engineering, with an emphasis in structures. Candidates must possess a valid PE license or be working toward licensure.

Engineers with a thorough knowledge of current codes and an interest in participating in all steps of a project, including client relations, site visits, fee estimating, schematic, construction and permit documentation and analysis, construction support and more, are encouraged to apply.

We care deeply about the quality of product we produce, but we care even more about the people that create those products. Our philosophy encourages engaged working hours to give us the flexibility to enjoy our lives outside of work.

Contact eric@grummelengineering.com via email for more information or to apply.

STANTEC

Structural Engineer in Training
Portland, OR

Stantec has a need for a Structural Engineer-in-Training (EIT) in our Portland, OR office. This is a perfect opportunity for a talented, team-focused EIT with approximately 2 years of design experience looking to challenge themselves on a professional level and contributing to a variety of water and infrastructure projects. You will have the opportunity to learn, work on exciting and multi-faceted projects, grow your career, and collaborate with some of the finest designers in North America.

Join us and redefine your personal best. A complete description of the opportunity and information on how to apply can be found here: <https://stantec.jobs/portland-or/structural-design-engineer-in-training/D45DE0A157D549699BCFDED6C9029AD8/job/>

(Continued on Page 9)

EMPLOYMENT OPPORTUNITIES (CONT.)

ERICKSON STRUCTURAL ENGINEERING

Structural Engineer
Vancouver, WA

Are you ready for a new opportunity? Our engineering practice is focused upon existing buildings, including structural forensics, renovations, seismic upgrades, remedial design, failure investigations, and building structure evaluations. These are not routine projects that are handled with spreadsheets and typical details. We seek out and accept challenging assignments that require a true understanding of engineering principles, technical knowledge, and experience to resolve our clients' complex and unique projects.

Erickson Structural Consulting Engineers is small, niche-based structural engineering firm. Our projects are located in many of the western states but are concentrated in the Pacific Northwest and Hawaii. We have an immediate opening for a structural engineer with a PE license, with approximately four to eight years of experience working in a consulting structural engineering environment, to join our team in Vancouver, Washington. The successful applicant must be comfortable with client interaction, possess excellent English verbal and written communication skills, be efficient in the use of AutoCAD, and be physically capable of conducting project site visits, including occasional entrance into seldom-accessed building spaces.

We offer a competitive salary, a medical, dental and vision benefits package, a 401k plan with employer matching, paid training, quarterly profit sharing, paid holidays, PTO, a company-issued laptop and cell phone, a flexible schedule, including the ability to work from home on occasion, along with other benefits. If you are looking for a relaxed office environment, an opportunity to play an integral role in our firm, and to be involved in distinct and meaningful projects, we encourage you to apply. To do so, please submit a cover letter describing your career aspirations, a copy of your resume, a list of references, and salary expectations to info@ericksonstructural.com.

KURT FISCHER STRUCTURAL ENGINEERING

Structural Engineer
Portland, OR

Kurt Fischer Structural Engineering (www.kfseng.com) is looking for entry level or experienced structural engineers to join our new and expanding Portland office. KFSE provides innovative and creative solutions for the built environment. We are looking for passionate and ambitious structural engineers to join our versatile, progressive, and experienced firm. Current projects include: historic non-ductile concrete and URM seismic rehabilitation, mid-rise office buildings, residential apartment and mixed-use complexes, luxury residential, and a mid-rise luxury hotel.

We highly value our employees and strive to foster a positive and energetic work environment by providing engineers with the tools, resources, and mentoring to further their knowledge and career. There is ample opportunity for upward mobility within our firm, and we invite you to talk with us about exciting opportunities at KFSE. Contact: LT@kfseng.com