

May 2020

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Upcoming Events

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- 8 Geo-Institute Meeting
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- 28 MSPE-ASCE Joint Luncheon Webinar

June

- 9 Joint ASCE-NSBE Luncheon Webinar

Follow the Section and share with your network.



Update your bookmarks with our new Section website

<http://sections.asce.org/st-louis/>



May Luncheon Webinar

Date: Tuesday, May 12, 2020

Time: 12:00 PM - 1:00 PM

**Leadership During a Crisis
and a
Heavy Haul Project**

Speaker: Marsia Geldert-Murphey

Marsia is an executive with over 28 years of engineering and construction industry experience, 15 years as a leader of privately held companies. Marsia has been a member of ASCE for over 30 years, joining while she was a student at South Dakota State University. She has served in ASCE leadership at all levels. Most recently she served a three-year term as Region 7 Director, where she served as the governance leader for over 10,000 members in the states of Missouri, Iowa, Kansas, Colorado, South Dakota, Wyoming and Nebraska. Marsia has a passion for inspiring others to dream big. She encourages her teams to recognize the importance of collaboration. Her favorite quote by President John F. Kennedy – “A rising tide will lift all boats,” reflects that creed.

Time and Date

12:00 pm to 1:00 pm, May 12, 2020.

Cost

FREE to ASCE members. One (1) PDH available.

Registration

Please register by 5:00 PM on May 11, 2020.

[Register here.](#)

Also please see page 9 for the [MSPE-ASCE May Joint Luncheon.](#)

Thank you to our membership for showing strong support, participation, and understanding during the unusual current times. We hope the transition to web-based meetings and professional development opportunities is smooth and beneficial with meaningful content. Please plan to participate in upcoming meetings listed on the left side of this page.

Sincerely,

Tony Roth, P.E. and Stephen J. Noeth, PE, SE

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President's Message



This month I am very happy to announce newly appointed leaders for key Section leadership positions.

Brian Rensing, PE, PTOE, RSP has accepted to Chair the St. Louis Chapter of the **Transportation and Development Institute (T&DI)**. He has written an introduction about himself and his plans for T&DI on page 6 of this edition.

Jeffrey Smith, PE has agreed to lead the **Student Involvement Committee**. The purpose of the committee to serve as a bridge between the student chapters at the five universities within our Section, keeping both the student chapter and the Section informed about the activities of each. Jeff has long been our Webmaster and intends to stay active in that role as well.

Christoph Opperman will chair the **Pre-College Outreach Committee**. Christoph has extensive experience working with students from the academic side and now will be helping students to understand options and opportunities in civil engineering he can offer as a practicing civil engineer.

This is the time of year that Board of Direction members and an incoming Director are elected to terms that begin in October. We are pleased to announce that **Shari Cunningham, PE**, will be joining the St. Louis Section Board of Direction as the Director of Administration. Shari was nominated by the Nominating Committee in accordance with the Section Bylaws and will serve her term as Director from October 2020 to September 2023. I want to thank Shari for bringing forward her experience and dedication she demonstrated by her prior leadership of the Geo-Institute St. Louis Chapter. I also express my gratitude to our current officers who have agreed to continue to serve the upcoming term in their next higher office beginning in October.

And this just in - Congratulations to the **Saint Louis University ASCE Student Chapter** for being selected as one of two finalists for the 2020 Richard J. Scranton Outstanding Community Service Award.

I close this month by acknowledging the passing of **John C. Theiss, Jr., S.E., P.E.** The memorial on the next page, written by R. Phillip Shinn and Ted Pruess, reminds us of just some of Mr. Theiss' many accomplishments and contributions to the structural engineering profession and to the St. Louis Section. My thoughts are with the Theiss family and the many people who were fortunate to be associated with Mr. Theiss.

'Til next time,
Brent M. Vaughn, PE

brent.vaughn.asce@gmail.com

In Memory of John C. Theiss, Jr. , S.E., P.E.

John Theiss, a leading member of the St. Louis Section and a nationally recognized structural engineer specializing in seismic analyses and design, passed away on April 11, 2020. He was born on June 15, 1929. He is survived by his wife Betty, 6 children, 2 step-children, 12 grandchildren and 3 great grandchildren. John is a graduate of Missouri School of Mines and Metallurgy at Rolla (now Missouri University of Science and Technology). John was a member of the armed services, serving in Alaska during the Korean War. After his service he began a lifelong career as a structural engineer. John has been one of the leaders in the engineering profession who have advocated the recognition of seismic risk to structures in the Midwest. He was a pioneer in seismic design in the Midwest. He was actively involved in the development of the next generation of codes and guidelines for both the seismic design of new buildings and the seismic strengthening of existing facilities.

John, as president of Theiss Engineers, was involved in early seismic strengthening of buildings in the region, including the Ameren Office Building, numerous communications facilities in both southeast Missouri and southwest Indiana, and many schools and hospitals, among other structures. He also oversaw seismic studies of buildings for many clients, aiding them in their decisions as to whether retrofits were viable alternatives.

John also played a prominent role in the design of buildings in and around St. Louis, and beyond, including buildings for clients such as Jewish Hospital, BJC, Children's Hospital, St. Elizabeth Hospital, Wentzville Community Hospital, Deaconess Hospital, Washington University, University of Missouri, Fontbonne University, Duke University, St. Louis University, Drew University, Berea College, Marriot Pavilion, Alberici, McCarthy Brothers, Southwestern Bell, Ferguson-Florissant School District, Berkeley School District, Clayton School District, St. Louis Public Schools, Jefferson City School District, St. Louis Priory, St. Louis County Library, Missouri Department of Natural Resources, City of Town and Country, US Postal Service, Thomas Dunn Learning Center, Mansion House, and many others. John's firm designed the structure for Butler-Carlton Hall, the Civil Engineering Building at his alma mater.

National Committees: Applied Technology Council Board of Directors – President (1996)
California SAC Oversight Committee's Investigation of Northridge Moment Connection Failures
Building Seismic Safety Council, Board of Directors
California Structural Engineers Risk Management Council, Board of Directors – President
National Earthquake Hazard Reduction Program, Technical Committee Member
Design Professional Insurance Corporation, President

State Committees: Missouri Seismic Safety Commission, Structural Engineering Representative

Local Committees: ASCE St. Louis Section, President (1971) and Chairman of Earthquake Technical Sub-Committee

Awards: ASCE St. Louis Section's Otto Nuttli Lifetime Achievement Award for Seismic Hazard Mitigation

From the *St. Louis Post Dispatch*: John loved sports and played college football. John had a big personality and he loved spending time with friends and family. Services: A Memorial Mass for John will be held at a later date. In lieu of flowers, donations may be made to JDRF at JDRF.org and Evelyn's House at bjchospice.org.

By R. Phillip Shinn, P.E and Ted Pruess, P.E., F.SEI

Call for Local Award Nominations

Dear St. Louis Section Members,

We write to you today to encourage you to think about your co-workers, friends, and clients in your professional life. The St. Louis ASCE Section has an array of awards that recognize the contributions to the civil engineering community, and they are listed on the following page.

I thought it would be helpful to give you some ideas on how this could benefit you and the potential nominee. For example, if you have a client that you want to recognize for exemplary work to the civil engineering community, you could make a nomination as “Award to Service People”. It is always nice to keep our clients happy and to know you are thinking of them. On the other hand, you may have a colleague that you admire for their life time efforts, you could nominate him/her to the “Professional Recognition Award” or that young colleague that you notice is very much involved with technical projects and at the same time commits to service activities to the community could be nominated to the “Young Engineer Award”. An award that is not always bestowed is the “Excellence in Journalism Award”, which recognizes those outside our civil engineering community that have dedicated time to write about our projects or people. I can think of a few newscast personalities or newspaper authors that have mentioned our projects in the past.

So, I encourage you to use this vehicle to nominate those in your circle of influence to be recognized by our St. Louis ASCE Section. If you would like some assistance on how to obtain the forms and produce the nomination, please contact our awards committee co-chairs.

Thank you.

Awards Committee

Ronaldo Luna (ronaldo.luna@slu.edu)

Michelle Bresnahan (mbresnahan@lochgroup.com)

The St. Louis Section is seeking nominations until **June 1, 2020** for the following Local Awards:

St. Louis Section Project of the Year

This award is made annually for any engineering project that falls into the general category of civil engineering. The award is given to the owner, lead design engineer and general contractor of the project. Only engineering and construction achievements within the boundaries of the St. Louis Section are eligible. The project must have been completed and placed into operation within 5 years of the date the nomination is submitted. Basis for the Award is “an engineering project that demonstrates the greatest engineering skills, and represents the greatest contribution to civil engineering progress and mankind”.

Professional Recognition Award

This award recognizes the importance of professional attainment in the advancement of the science and profession of engineering and is presented annually to a Member of the St. Louis Section who has made substantial contributions to the engineering profession and the St. Louis Section.

Young Engineer Award

This award recognizes professional contributions of younger members to the Society and to the Section and is presented annually to a Member of the Section who is less than 35 years of age on February 1, 2020.

Award to Service People

To bring public recognition to individuals who have performed outstanding service to people in their communities and to further public understanding and recognition of the identification “Civil Engineering - A People-Serving Profession”. The awardees need not be civil engineers but are selected based on their service to the general public that has some connection with the planning, design or construction of the people serving works of the civil engineering profession.

Excellence in Journalism Award

This award is to honor journalists for outstanding articles that enhance public understanding of the role and impact of civil engineering in designing solutions for clean water, transportation, the environment, and other public works projects. Nominations will be accepted for journalists and producers from English-language, general-interest regional and national newspapers, radio and television stations, magazines, and electronic and Web-based news outlets.

Please submit nominations to Michelle Bresnahan at MBresnahan@lochgroup.com. Guidelines and forms for making nominations are available on our St. Louis Section website at: <http://sections.asce.org/st-louis/awards> under the “Awards” tab or the information can be emailed or mailed to you upon request. Email MBresnahan@lochgroup.com or call 314-446-3795 with questions.

Deadline for submittal is June 1, 2020.

Transportation and Development Institute St. Louis Chapter



My name is Brian Rensing and I am the chairperson for the ASCE St. Louis chapter of the Transportation and Development Institute (T&DI). I grew up in Belleville, Illinois and went to Bradley University in Peoria, Illinois for my bachelor's in science degree in Civil Engineering. I have over eighteen years of experience in the traffic and transportation engineering field working as a Transportation Engineer at CBB Transportation Engineers and Planners here in St. Louis. I have been involved in many facets of transportation engineering and has completed hundreds of traffic impact studies, school safety studies, traffic safety studies and crash analyses, operational improvement studies, and parking studies. Over the last 18 years I have coordinated with many great people in the transportation and development industry.

As you know, the T&DI is a specialty membership organization focused on transportation and development professionals and the transportation and development industry. The T&DI supports the advancement of integrated transportation and development that is safe, secure, and sustainable. Members include those from academia, government, and the transportation and development industry that collaborate to promote professional excellence. T&DI is intended to combine the talents and perspectives of its members to promote professional excellence in all aspects of transportation engineering, urban planning, and development. The T&DI strives to enhance career development through Conferences, Journals and Practice-Oriented Publications, Continuing Education Programs, Networking and Coalition-Building, and Leadership and Committees.

As the chairperson of the local T&DI, I am looking forward to meeting more of the ASCE members involved in the transportation and development industry and grow the ASCE T&DI membership in the St. Louis Chapter. My goal for the chapter is to start out with a few meetings/gatherings a year with professional and technical seminars or webinars, fill the Board of Directors (chair, vice-chair and secretary/treasury positions), and grow the frequency of meetings and activities as members become more active and membership grows. Feel free to reach out to me at brensing@cbbtraffic.com if you are want to become more involved in the local T&DI.

Committee Chair Openings

Communications Co-Chair - The Committee's primary goal is to communicate to all local members news of past, present, and future activities and programs for the purpose of stimulating greater interest and participation in section affairs. The Co-Chair is expected to work closely with the president and chairmen of other committees to obtain information of vital interest to the membership. Correct and timely information should be obtained from the program committee regarding forthcoming meetings. Valuable news will also be found in the Section Leader, a regular publication issued from ASCE headquarters. An informal but regular system of contacts or reporters is an essential ingredient to the collection of interesting news.

Geo-Institute News

The next meeting will be held via conference call on Friday, May 8th at 7:30 AM. Additional details on the meeting will be distributed to members as the meeting date approaches. We will be discussing the proposed budget items for the next fiscal year, as well as preparation for the *Geo-Structures Confluence*.

Please contact jschaeffer@millennia.pro for more details.



**GEO-
INSTITUTE**

St. Louis Chapter



**STRUCTURAL
ENGINEERING
INSTITUTE**

St. Louis Chapter

Structural and Geo-Confluence

CALL FOR ABSTRACTS!

Friday, November 6, 2020

St. Charles Convention Center

St. Charles, Missouri

The St. Louis Chapters of the Geo-Institute (GI) and Structural Engineering Institute (SEI) are now accepting abstracts for the fifth annual Structural and Geo-Confluence. The conference will be a multi-track, full-day event featuring technical topics and case histories presented by local and national experts. The joint morning session will be focused on topics concerning the confluence of geotechnical and structural engineering. There will be two tracks in the afternoon: one track including sessions on geotechnical engineering and geoenvironmental topics and one track focused on structural engineering topics. The conference is open to all engineering and construction professionals and students. Last year's conference was attended by nearly 200 people located throughout Illinois and Missouri.

The planning committee is seeking speakers to provide a 30- to 60-minute presentation focused on structural engineering, geotechnical engineering, or geo-environmental topics with specific preference given to topics that overlap these focus areas. All persons are encouraged to submit an abstract to Patrick Kinsella at pmk@shanwil.com by July 17, 2020. Abstracts should be limited to 250 words. Once the planning committee has reviewed the abstracts, notification will be provided to the selected presenters by August 14, 2020. The submitted abstracts and presentation slides will be assembled and included in the conference publication.

Accepting abstracts, sponsorships, and exhibitors.

EWRI St. Louis Monthly Speaker Series Event



ENVIRONMENTAL &
WATER RESOURCES
INSTITUTE
St. Louis Chapter



The St. Louis Section of EWRI is pleased to announce our monthly webinar **on Thursday, May 21, 2020 at 11:30 am-12:30 pm Central Time.**

This presentation will be broadcast live over a webinar. Registration is free to ASCE members. **Advance registration is required by Noon, Monday, May 18, 2020.** Please register online in advance at the following link:

<https://docs.google.com/forms/d/e/1FAIpQLSett23vrZ79L3B3VtnV5nxypqgVBOXiwBalpaOJF2ZFROB4ng/viewform>

Registrants will receive detailed login and dial-in information or directions for in-person attendance prior to the event.

Water Management and Reservoir Operations during the 2019 Flood

The 2019 Flood was a historic event, setting records for stage and discharge at many points along the Missouri River. Within the US Army Corps of Engineers - Kansas City District, nine reservoirs reached record pools throughout the spring and summer of 2019. This webinar will discuss the series of events that occurred, the US Army Corps of Engineers - Kansas City District reservoir operations, and the ongoing post-flood recovery efforts.

Speaker

Eric Shumate, PE has served as the Hydrologic Engineering Branch Chief for the US Army Corps of Engineers - Kansas City District since 2012. He joined the Kansas City District as a hydraulic engineer in 2004, after seven years in engineering consulting.

In addition to his current position, Eric has served as the project engineer on numerous flood risk management projects, the team lead for a multi-discipline team assessing dam safety risks across the United States, the Section Chief of the Kansas City Water Management, and conducted an onsite post-flood assessment for the Queensland, Australia government in 2012.

Eric is a graduate of University of Missouri-Rolla (that was the name in 1996! – now Missouri University of Science and Technology) with a Bachelor of Science in Civil Engineering. He has also received a Master's Degree in Civil Engineering – Hydraulics from the University of Iowa in 1998.

Thank you to our joint seminar sponsor, **EDM Incorporated!**

Please contact **Len Madalon** (ljm@edm-inc.com) with any questions, if you are interested in presenting, or have an idea for a topic.



ST. LOUIS CHAPTER
MISSOURI SOCIETY OF
PROFESSIONAL ENGINEERS



**Missouri Society of Professional Engineers (MSPE)
and American Society of Civil Engineers St. Louis Section (ASCE)
May Joint Luncheon
Thursday, May 28th, 2020**

NOW ON-LINE - PLEASE NOTE THE REVISED DATE

Morals, Ethics, and Integrity – Know Your Line in the Sand

Abstract: In this presentation the speaker explores definitions of terms related to ethics in professional practice, presents current examples of ethically questionable situations, and discusses ways to recognize a slippery slope early in the process. Ethics is not just a list of rules – right and wrong are not always easy to discern. How do ethics and legality interplay in decision making? Cognitive dissonance is discussed in the context of making ethical decisions amid conflicting values and beliefs. When repeated, ethical decision-making becomes habitual and leads to a more reflexive process for our future decisions.

About the Presenter: DALE SMITH, P.E., F.ASCE, holds a bachelor's degree in Geological Engineering from the Missouri University of Science and Technology and a master's degree in Civil Engineering from the University of California, Berkeley. Smith is Geotechnology's south region geotechnical manager with 16 professional staff, currently located in their Memphis, Tennessee office. He worked for the U.S. Navy and three engineering firms before moving back to St. Louis for a position with Geotechnology where he has been employed since the summer of 1995. In his time with Geotechnology he has managed a wide array of projects and worn many hats, including managing the Illinois office for 9 years and project managing jobs ranging up to the recent MSD River Des Peres combined sewer overflow tunnel exploration. Currently he is managing projects for Tennessee and Arkansas DOTs. He was awarded the Geotechnology Ronald M. Eckelkamp Leadership Award in 2017.

Time, Date, Location

Thursday, May 28, 2020 from 12:00 PM to 1:00 PM
One (1) PDH is available.

Cost: This is a no cost event.

Registration

<https://events.r20.constantcontact.com/register/eventReg?oeidk=a07eh21x6v60f2c7249&oseq=&c=&ch=>

Please register online using the link above for reservations by 9:00 PM, May 27th.

IECA Great Connections Conference

EWRI St. Louis Chapter is pleased to partner with International Erosion Control Association for the [IECA Great Connections Conference](#) to be held July 28-30, 2020 on Chesterfield, MO.



Registration and the Schedule are Online!

The conference draws 150 contractors, stormwater professionals, designers and planners from around the host chapters' 10 states (IL, IN, MI, OH, WI, IA, KS, MO, NE, MN) and bordering IECA chapter regions.

The agenda features two training tracks and offers a wide variety of case studies, workshop and technical papers to help attendees learn about real world industry solutions applicable to the area. Plenty of networking opportunities are available for attendees to engage with local industry peers as well. And, exhibitors and sponsors feature the latest industry products, services and technology on the market to help increase on the job efficiencies!

Full Conference Pass

Member \$195 | Nonmember \$215 (Before July 15, 2020)
Member \$215 | Nonmember \$235 (After July 15, 2020)

Single Day Pass

Member \$145 | Nonmember: \$170 (Before July 15, 2020)
Member \$165 | Nonmember: \$190 (Before July 15, 2020)

Interested in Sponsoring or Exhibiting at this Event?

Contact Kim Kline at kim@ieca.org or call 303-468-2236 for availability and pricing.

HOSTED BY:



University News

Update from Missouri S&T

The COVID-19 impacts on our educational programs are undeniable at Missouri S&T. Transitioning the more than 600 students in our degree programs to entirely remote learning was no small challenge, but we have a history of advancing our educational programs to meet the challenges of our profession and did so again. While this effort was unprecedented in so many ways, our experience in online and distance education helped us make the transition successfully. Missouri S&T's online graduate engineering programs ranked in the top 20 public engineering programs again in 2020 (<https://www.usnews.com/education/online-education>). Our fully online MS programs in Civil and Environmental Engineering are among the 13 degree options offered through S&T that were noted by US News and World Report as being among the best programs of the nearly 1,500 online US degree programs included in the assessment. Our experience in online education helped us all make the rapid transition for our students. We have also increased our summer 2020 offerings in both undergraduate and graduate courses to help those that are looking to continue their education and professional advancement. More information on our distance education courses and programs are available at <https://distance.mst.edu/care/>

We are also excited to share three pending graduate certificates that will expand our offerings and potential to enter graduate programs. These three new programs should be in place for fall 2020.

- Building Systems Engineering
- Surface Water Resources
- Advanced Materials for Sustainable Infrastructure

These new certificate programs will add to our current 5 certificate programs as four-course certificate options, which can be used to entering the degree program once completed. Many of our online offerings can also apply toward bachelor's programs, allowing students to continue toward their degree over the summer or while on an internship or Co-op. For any questions about our online programs, contact Care@mst.edu or Jeannie Werner our Graduate Student Assistant wernerje@mst.edu

Our students and our team look forward to getting back into Butler-Carlton Civil Engineering Hall and back onto the S&T campus full time of course. The shutdown of campus activities certainly was a damper heading into St. Pat's 2020. Our competition teams were ready to continue our active student groups, and they are all are chomping at the bit to get back to work. The expansion of the Fred and June Kummer Student Design Center is nearing completion in the construction project by Brinkmann Constructors. This project will double the space for our S&T competition teams and our Engineers Without Borders design facilities.

The active learning at S&T is set to be on campus for fall 2020, and we all hope to execute that plan and return to the campus learning that we have carried out for 150 years in Rolla Mo, as the civil engineering education started in 1870 with the founding of the Missouri School of Miners and Metallurgy. We will continue on our legacy to educating our next generations of civil, architectural and environmental engineers!

My regards to all,

Dr. Joel G. Burken, Chair and Curators' Distinguished Professor
Department of Civil, Architectural and Environmental Engineering, Missouri S&T

MISSOURI S&T
Global Learning

CIVIL ENGINEERING (MS/DE)

Graduate Certificates —
pathway to your master's degree.

Contemporary Structural Engineering
Geoenvironmental Engineering
Geotechnical Earthquake Engineering
Infrastructure Renewal
Project Engineering and
Construction Management

Distance Graduate Programs
for Working Professionals.
LEARN MORE
distance.mst.edu/care/

MISSOURI
S&T

Employment



Engineering Systems Inc.

Seeking experienced Civil/Structural Engineer:

ESi is an engineering and scientific investigation consulting firm providing the highest quality engineering and analytical services to clients nationwide. We are seeking a qualified civil/structural engineer for a full-time position as a forensic engineering consultant in our St. Louis regional office located in O'Fallon, Missouri.

Position Description

As a forensic engineer in our Civil/Structural Practice, you will be performing loss investigations and analyses providing exceptional engineering services and responsiveness to our commercial, insurance, and attorney clients. The position affords the candidate experience in a wide breadth of interesting project types, varying in size, duration, and complexity; while providing the opportunity to develop in personally desired areas of expertise.

Position Responsibilities

- Perform field inspections and documentation in damage assessments of residential, commercial and industrial structures utilizing state-of-the-art inspection and photographic equipment.
- Investigate construction defects, property liability claims, construction site accidents, compliance cases, and develop and review scope of repairs.
- Design of repairs, foundations, temporary support systems for repairs and construction.
- Prepare condition assessments and develop alternative designs.
- Prepare and review technical reports, drawings and project-related correspondence.
- Communicate concisely with the clients, prepare and review project proposals and plans.
- Perform marketing and business development activities to maintain and build client base.

Education/Experience/Skills Requirements

- BS in Civil or Structural Engineering, MS preferred
- Professional Engineer's license (CE and/or SE and/or GE). An EIT with the ability to obtain a PE license within the first year may be considered
- 5-10 years' experience in Civil/Structural Engineering with proven technical abilities. Experience in buildings and structures condition assessments, and prior litigation experience is a plus.
- Excellent oral and written communication skills; agile with Microsoft Office including Word and Excel. Skills in computer graphics, CAD and FEA is a plus.

For more information or to apply, go to www.engsys.com/careers or you may send a resume/cover letter to:

**Engineering Systems Inc.
Beth Verbeck, Corporate Recruiter
4215 Campus Drive
Aurora, IL 60504
baverbeck@engsys.com**



Horner & Shifrin is seeking a full-time Engineer to work in our Transportation division in our St. Louis or Poplar Bluff, MO office. This position requires **4+** years of experience. This position is assigned specific tasks on project teams; and is expected to resolve engineering problems and tasks with assistance, as needed, from more experienced staff.

POSITION RESPONSIBILITIES/DUTIES:

- Candidate will work under licensed engineer
- Responsible for the development of engineering plans, specifications and estimates (PS&E)
- Work as part of a team to complete general transportation engineering services for municipal, county and state agencies
- Provide good and effective written/verbal communication skills

POSITION REQUIREMENTS:

- Must have an Engineer Intern certification; Professional Engineer license is preferred
- Must have a valid driver's license
- Must be able to pass a background check
- Proficient in the use of Microsoft Office software (Outlook, Excel, Word, Project)
- Proficient in the use of MicroStation and GEOPAK SS4 or AutoCAD Civil 3D

EDUCATIONAL REQUIREMENTS:

BS in Civil Engineering

SALARY RANGE:

Salary will be commensurate with experience.

Horner & Shifrin, Inc. is a Federal Contractor, Equal Opportunity Employer M/F/Disability/Veteran. We are a 100% Employed Owned firm, offer a generous benefits package, and named a 2017, 2018 & 2019 Top Workplace by the St. Louis Post-Dispatch.

If you are interested, you must apply through our website at www.hornershifrin.com/careers. Visits and phone calls will not be accepted.

Learn more about us at www.hornershifrin.com.



Prairie Engineers, P.C. is seeking a Structural Engineer to join their team.

Prairie Engineers is a full services engineering, geospatial, and environmental science firm with a goal of delivering sustainable infrastructure solutions and maintaining our natural and built environment. We are a woman-owned firm with offices in Columbia, Hillsboro, Peoria, and Springfield, Illinois and Hazelwood, Missouri. The firm provides services to federal, state, and local governments, utilities, industries, and private businesses. Prairie Engineers is a growing company, looking to add a Structural Engineer to their team to assist primarily in the office with project planning, structural engineering design, and construction document development. This position will be a full time position with benefits and a competitive salary based on qualifications. This position is available to be filled in any of our office locations.

Essential Job Functions:

- Planning, design, and construction administration of transportation and building projects
- Ability to work both independently and as a team leader
- Focus on project delivery and customer service with attention to detail and deadlines

Minimum Qualifications:

- A minimum of five years' relevant design experience
- Current licensure as an Illinois Structural Engineer
- Good verbal and written communications skills
- Ability to work both independently and as part of a team
- Project a professional, positive attitude with a strong work ethic

Preferred Knowledge, Skills, Abilities, and Experience:

- Eight or more years of design experience
- Past project management experience
- Familiarity with Illinois DOT and CDB design standards, procedures, and requirements

We are an equal opportunity employer that recognizes the value of a diverse workforce. All qualified individuals will receive consideration for employment without regard to race, color, religion, creed, gender, national origin, age, handicap, marital status, veteran's status, sexual orientation, or any other legally protected status.

Preference will be given to applicants who reside in a HUBZone as defined by the US Small Business Administration. For a map of certified HUBZone areas, please refer to the following website:

<https://maps.certify.sba.gov/hubzone/map/>

For additional information regarding our company and benefits offered our employees, please visit our website at www.prairieengineers.com.



Oates Associates is a team focused on enhancing our community from the inside outward. That begins internally with a talented staff. If you are interested in a position with Oates Associates, please complete the [employment application](#) and send it along with your resume. Upload your information to our website at www.oatesassociates.com/contact, email us at oai@oatesassociates.com or print and send to:

Oates Associates, Inc.
100 Lanter Court, Suite 1
Collinsville, IL 62234

The firm is an equal opportunity employer that offers competitive salaries, an excellent benefit package, great working environment in new office space, flex-time, opportunity for quick advancement and ownership potential. We seek to develop a more diversified workforce and encourage women and minority candidates to apply for this position.

Civil Engineer - Entry Level to 5+ Years

The ideal candidate will also possess the following attributes:

- Bachelors in Civil Engineering
- EIT certificate or recently received PE license
- 0 – 5+ years civil engineering experience
- Work with both governmental and private clients in Missouri and Illinois is a plus
- Working knowledge of AutoCAD Civil 3D – proficiency is a plus
- Strong technical skills – presentation skills are a plus

Typical responsibilities will include:

- Drawing topographic surveys
- Laying out sites and developing grading plans in AutoCAD
- Coordinating utility service connections and relocations
- Developing of bid and construction documents
- Developing construction cost estimates
- Observing construction operations at work sites and performing material tests



We are seeking an energetic Bridge-Structural Project Engineer to join our team!

We currently have an opening for a Bridge-Structural Engineer to serve as a Structural Project Engineer in the St. Louis, Missouri region. This is an excellent opportunity to join a growing firm that is involved in a variety of projects, including highways and bridges for various local public agencies and state DOT's, miscellaneous structural design to support our other business units, and design-build pursuits. The ideal candidate must have a Bachelor's degree in Civil or Structural Engineering and be registered as a Professional Engineer; Structural Engineer registration is a plus. The candidate should also have 5 or more years of experience in bridge and structural design. In this position, you will:

- Develop calculations as necessary for structural engineering components on projects.
- Assist CAD technicians to develop structural plans and develop construction specifications for state and municipal transportation projects.
- Perform structural design and develop details as related to roadway bridges, various types of retaining walls, culverts, miscellaneous reinforced/prestressed concrete and structural steel design.
- Act as part of a team of professionals headed by a Project Manager. This position must be able to work independently or as part of a larger design team and interact well with other team members and the manager relative to assigned aspects of the project.
- Prepare cost estimates, calculate quantities, and assist in writing technical engineering and design reports.
- Utilize various structural design and rating software, spreadsheets, Microstation or AutoCAD to design and analyze structural components.
- Visit job sites as needed to support projects.
- Perform other duties as assigned.

In addition, experience on Missouri and Illinois local agency and DOT projects, and an understanding of the policies and procedures of these agencies, is preferred. Proficiency with Microsoft Office products including Excel, Word, and PowerPoint required. Experience using seismic analysis and design is preferred.

Location: Downtown St. Louis, St. Charles County, Missouri, or Troy, Illinois

Benefits: Lochmueller Group is now an Employee Owned Company and we would be excited to have you to join our talented group of employee-owners! In addition to our ESOP, we provide a 401(k) plan, rich coverage for major medical insurance, basic life insurance, short-term and long-term disability insurance, generous vacation and sick leave, and several others.

Check us out at www.lochgroup.com and submit your resume to: jkelly@lochgroup.com. EOE



UMSL/Washington University Joint Civil Engineering Program Adjunct Instructor open positions

Adjunct Instructors are needed in 4 courses within the UMSL/Washington University Joint Engineering Program. Consider joining our team of instructors in providing academic instruction theory while also providing civil engineering application in practice to the students. Adjunct instruction is rewarding and allows engineers to give back to the profession.

- ***J C ENGR 3360 Civil Engineering Materials Lab: 1 semester hour***
- ***J C ENGR 1430 Introduction to Engineering Design: CADD & GIS 2 semester hours***
- ***J C ENGR 3430 Civil Engineering Design CAD & GIS: 2 semester hours***
- ***J C ENGR 4740 Economic Decisions in Engineering: 3 semester hours***

Course descriptions are provided on the UMSL Engineering website and provided for your convenience: <http://bulletin.umsl.edu/jointundergraduateengineeringprogram/#courseinventory>

It must be noted that J C ENGR 1430 Introduction to Engineering Design: CADD & GIS course description is provided below since Civil Engineering students are being directed to a Civil Engineering CADD & GIS course instead of the current introduction CAD course.

J C ENGR 1430 Introduction to Engineering Design: CADD & GIS 2 semester hours: An introduction to engineering design in the context of civil engineering problems and applications. Students will be introduced to the basics of GIS and computer-aided design and drafting concepts and techniques to learn the fundamentals of spatial reasoning and graphical representation. Freehand sketching, including pictorial and orthographic views, are applied to the design process as well. Topics in solving design problems, dimensioning, tolerancing, multi-view orthographic representation, auxiliary views, section views, working drawings, text creation, instrument usage, charts and diagrams, three-dimensional drawings, pictorial drawings, production drawings, engineering design concepts, and fundamental descriptive geometry. Design project: individual or small group assignments, the design process, preliminary drawings. This course is required for civil engineering majors.

J C ENGR 3360 Civil Engineering Materials Lab is taught in the Summer semester that begins June 8th and ends July 31st.

J C ENGR 1430 Introduction to Engineering Design: CADD & GIS and **J C ENGR 4740 Economic Decisions in Engineering** are both taught in the Fall semester.

J C ENGR 3430 Civil Engineering Design CAD & GIS is taught in the Spring semester.

Experience in the civil engineering field and instruction is considered for the appointment and compensation.

Send inquires to Gary Moore, Senior Lecturer and Civil Engineering Director at gmoore23@wustl.edu telephone 314-935-2592.

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For more information and updates see our Web Page: <http://sections.asce.org/st-louis/>

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