

President’s Message 1
 Committee Chair Openings..... 3
 Membership Reminders 3
 Younger Member Group Update 4
 Structures Congress 2020 6
 Geo-Institute News..... 6
 GeoConfluence Research Scholarship Award..... 6
 GeoCongress 2020 7
 EWRI St. Louis News 8
 Sustainability Committee Seminar..... 10
 MSPE MWEA January Luncheon 11
 Missouri S&T On-line Education Opportunities 12
 Professional Engineer Refresher Course 13
 Employment 14
 To submit items to the newsletter... 24

Upcoming Events

December

- 13 – Geo-Institute Meeting
- 13 – Operation Food Search
- 14 – YMG Meeting
- 19 – EWRI Monthly Webinar

Follow the Section and share with your network.



Update your bookmarks with our new Section website

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



President’s Message



It’s Thanksgiving weekend and the sights and sounds of college and pro sports are everywhere. My job keeps me busy in part with civil engineering student competitions, such as the ASCE Concrete Canoe and GeoWall events. If you went through school in the past two or three decades then you are probably familiar with at least the Concrete Canoe competition. The G-I GeoWall competition was developed over the past 15 years or so for students interested in geotechnical engineering to design and build a model MSE wall to resist static and dynamic loads using the least amount of reinforcement material (craft paper). Both competitions require students to pull together and put into practice the materials and statics concepts they learned in school. They build on other strengths they have practiced along the way throughout more than a dozen years of schooling – time management, working with their teammates, communicating with vendors, clarifying rules set by the competition regulators, and formally presenting their project to an audience of their peers and practicing engineers serving as judges. Those of us that have been in the work force for any length of time recognize how important it is to develop that broad range of skills to succeed as professionals. After competing in at least one of those competitions I see that students typically also recognize how much they have learned by actively participating. Many of you have had similar experiences at some level, perhaps as competitors, mentors, supervisors or judges. Whatever your involvement has been I hope your experience working with the younger people has been as personally rewarding to you as it has been for me. And that brings me to the point of the matter.

University of Missouri – Columbia (Mizzou) will host the 2020 Mid-Continent Student Conference in April, 2020 (<https://engineering.missouri.edu/academics/civil/mcsc2020/>). They are taking their turn hosting this annual ASCE student conference that rotates among several Midwestern universities with civil engineering programs and ASCE student chapters. You can play an important part in the conference using your professional experience by volunteering to be a judge for the several competitive events the students will participate in. For more information about the events and volunteering to be a judge, please contact the conference planning committee at

Officers & Directors 2019 - 2020

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2020MidContConf@gmail.com. The Saint Louis Section will also participate. We are looking for engineers and firms to partner with to help Mizzou give the more than 300 student participants a variety of networking and practice oriented exhibits. Are you available to join us in that?

Next month I will write about several upcoming events as we further partner in public outreach with the St. Louis Science Center.

I wish you and yours all the best for the holiday season and to welcome in the New Year of 2020.

'Til next time,
Brent M. Vaughn, PE

brent.vaughn.asce@gmail.com

Committee Chair Openings

ASCE St. Louis Section is seeking dedicated members to open chair committees as briefly described below, with the opportunity that the incoming chair will “make it their own.”

Pre-College Outreach (formerly Career Guidance) - The purpose of the Pre-College Outreach is to inform elementary, middle and high school students and staff about Civil Engineering. This information includes the requirements for becoming a civil engineer, and how civil engineers improve the quality of life for all citizens. The committee provides speakers and participates in Career Days, Shadowing Days, and other volunteering opportunities relating to Civil Engineering. They also maintain a database of school counselors, and keeps an inventory of materials (including brochures, pamphlets, videos) used by the Committee in their activities. The Society provides many resources and materials to be utilized by the Committee in their efforts.

Student Involvement Chair - The purpose is to serve as a bridge between the student chapters at SIU-Edwardsville, SIU-Carbondale, MUS&T, University of Missouri, and St. Louis University, keeping both the student chapter and the Section informed about the activities of each. The Student Involvement Chair also informs the student chapters of the Section funds available to them and assist them in requesting the funds, and assist the Past-President in soliciting scholarship nominees.

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.

Membership Reminders

Don't forget to renew your membership before the end of the year. You probably have received email reminders and if so, you can easily renew online via the link in the email. As a reminder, your ASCE membership affords you up to **10 PDHs** through On Demand individual webinars. Also, there many career guidance tools that you can access through the ASCE website such as:

- ASCE Career By Design: ASCE's new online portal for young civil engineers
- Access Engineering: An online reference tool for professionals, academics, and students
- ASCE Mentor Match: Find a mentor or be a mentor in civil engineering

If you have any questions about these ASCE benefits, or ASCE membership in general, please contact the St. Louis Section Membership Chairperson Lyle Simonton (lsimonton@subsurfaceconstructors.com).

Younger Member Group Update



Community Service Projects – The YMG is looking to replace a community service project in the spring, if you know of or hear of any in the St. Louis or metro-east areas please pass the information along to us at ascestlymg@gmail.com.

Younger Member Highlight – We are starting a new recognition feature for our younger members, if you would like a chance to be recognized, please fill out [this survey](#). A Younger Member, potentially two, will be chosen each month and featured on our Facebook page and in the newsletter on our YM update.

Operation Food Search – Operation Food Search is Friday, December 13 12-2pm. Anyone is welcome to join the Younger Members in their efforts to serve our community this season. We usually help with something in the process of packing meals to be distributed later to families in need. Please e-mail us at ascestlymg@gmail.com if you're interested in joining us!

Mark your calendars for the first meeting of the fall!

December YMG Meeting

Thursday, December 14, 2019

International Tap House

16 S. Euclid Ave, 63108

6 pm to 8 pm

<https://www.internationaltaphouse.com/>

The FY20 updated schedule can be found on the next page!

Like us on Facebook for more frequent updates and potential pop-up activities!



YMG 2019 – 2020 Calendar

*Subject to change throughout the year

October YMG Meeting:

Thursday, October 3, 2019

Schlaflly Bottleworks

7260 Southwest Ave, 63143

6 pm to 8 pm

www.schlaflly.com

November YMG Meeting:

Thursday, November 14, 2019

McGurk's

1200 Russell Blvd, 63104

6 pm to 8 pm

<http://www.mcgurks.com/>

December YMG Meeting:

Thursday, December 12, 2019

International Tap House

16 S. Euclid Ave, 63108

6 pm to 8 pm

<https://www.internationaltaphouse.com/>

January YMG Meeting: SLU

Thursday, January 16, 2020

Urban Chestnut Midtown

3229 Washington Avenue, 63103

6 pm to 8 pm

<http://urbanchestnut.com/home/>

February YMG Meeting: SIUE

Thursday, February 13, 2020

Recess Brewing

307 N Main St, Edwardsville IL 62025

6 pm to 8 pm

www.recessbrewing.com

March YMG Meeting:

Thursday, March 12, 2020

1860's Hardshell Café

1860 S. 9th St. 63104

6 pm to 8 pm

www.1860saloon.com

April YMG Meeting:

Thursday, April 9, 2020

SqWire's Restaurant & Annex

1415 S. 18th St., 63104

6 pm to 8 pm

www.sqwires.com

May YMG Meeting:

Thursday, May 14, 2020

Hair of the Dog

1212 Washington Ave, 63103

6 pm to 8 pm

Structures Congress 2020



The poster for Structures Congress 2020 features the SEI ASCE Structural Engineering Institute logo on the left. The main title 'STRUCTURES CONGRESS 2020' is in large blue letters, with 'St. Louis, Missouri | April 5-8' below it. To the right, 'CALL FOR PROPOSALS' is written in bold blue letters, followed by 'Be part of the program — Submit an Abstract or Session Proposal' and 'Deadline: June 5, 2019'. A green banner at the top of the central image reads 'The Premier Event in Structural Engineering'. The central image shows the Gateway Arch in St. Louis at sunset. Below the image, a blue banner contains the text: 'Students & Young Professionals: Apply for Scholarship to Participate Learn more www.structurescongress.org'. On the left side of the poster, a list of topics is provided under the heading 'Interact with and learn from academic/practice experts on innovative topics:'.

Interact with and learn from academic/practice experts on innovative topics:

- Blast & Structural Response
- Bridge & Transportation Structures
- Building
- Business & Professional
- Career Development
- Education
- Forensic
- Natural Disaster
- Special Structures
- Nonstructural
- Research

Students & Young Professionals:
Apply for Scholarship to Participate
Learn more www.structurescongress.org

Structures Congress 2020 will be held in St. Louis at Union Station on April 5-8. Student & Young Professional Scholarships are available, but the deadline is **January 3, 2020**. Please contact Local Co-Chairs [Chad Schrand](#) or [Heather Neri](#) about any questions or learn more at www.structurescongress.org.

Geo-Institute News

Next Geo-Institute committee meeting is December 13, 7:30 AM at Terracon, 11600 Lilburn Park Road, St. Louis, MO 63146. All GI members are invited to participate. Those who are unable to attend in person can join by phone: Dial-in Number **(712) 432-6301** Access Code **993371**.

Please contact jschaeffer@millennia.pro for more details.

GeoConfluence Research Scholarship Award

The GeoConfluence Research Scholarship was established by the St. Louis Geo-Institute Chapter with an objective to promote research in the field of geotechnical/geoenvironmental engineering. The scholarship is funded by proceeds from the annual GeoConfluence and other events.

The 2019 GeoConfluence Research Scholarship was awarded to **Hamid Roustami** from SIUE and **Beshoy Riad** from MS&T.

Hamid was awarded a scholarship based on his Ph. D. research for "Quality Control of Soil Compaction Using Electrical Resistivity Method".

Beshoy Riad from MS&T. Beshoy was awarded a scholarship based on his Ph. D. research for "Numerical Analysis of Rainfall-Induced Landslide on Unsaturated Soil Slopes".

EWRI St. Louis News



Election of Chapter Officer: EWRI St. Louis Chapter will hold election for the position of Secretary/Treasurer at the next business meeting. The position will be effective from the election date to September 30, 2021. The role and responsibilities are posted in Chapter's Bylaws at <http://sections.asce.org/st-louis/node/18>. If you would like to nominate yourself or another member of our Chapter, please email to our Chapter secretary Meg Zuercher, Meg.Zuercher@jacobs.com, no later than January 10, 2020. EWRI Chapter's next meeting is scheduled for 10am January 14, 2020 Tuesday at the Engineering Center of St. Louis (the Engineers' Club) 4359 Lindell Blvd. St. Louis, MO 63108. Look forward to seeing you there.

2020 EWRI St. Louis Spring Symposium/Workshop: Your inputs are important for planning of our annual spring symposium/workshop. Please complete the survey at www.surveymonkey.com/r/72LSQMW. For questions, please contact the symposium chair Dr. Azadeh Akhavan Bloorchian at azadeh.bloorchian@stantec.com.

Getting Involved with EWRI St. Louis Chapter: You are invited to get involved with various activities of our Chapter such as organizing our webinar series and annual symposium/workshop and to offer your ideas how our Chapter can better serve our members and professional community. Please contact our Chapter chair Dr. Zhou at jzhou@siue.edu for information and conversation.

To learn more about our Chapter's activities, please visit our LinkedIn page https://www.linkedin.com/company/environmental-and-water-resources-institute-st-louis-chapter?trk=similar-pages_result-card_full-click



EWRI St. Louis Monthly Speaker Series Event

The St. Louis Section of EWRI is pleased to announce our monthly webinar **on Thursday, December 19, 2019 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, December 16, 2019.** Please register online in advance at the following link:

<https://docs.google.com/forms/d/e/1FAIpQLSett23vrZ79L3B3VtnV5nxypqgVBOXiwBalpaOJF2ZFR0B4nq/viewform>

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

Hydraulic Design Section at USACE St. Louis

James Wallace will be talking about the Hydraulic Design section at the U.S. Army Corps of Engineers (USACE) located in St. Louis, Missouri. He will be explaining the role of USACE on the Mississippi River with a focus towards the Navigation mission.

Mr. Wallace will also give short explanations on the variety of River Training Structures used and about Hydraulic Sediment Response models at the Applied River Engineering Center.

Speaker: James Wallace, PE is a Hydraulic Engineer at the U.S. Army Corps of Engineers. He received his B.S. in Civil Engineering from Southern Illinois University Edwardsville in 2008. Mr. Wallace has 10 years of experience as a river engineer and has worked on a variety of small and large rivers. He was the lead hydraulic engineer on several Upper Mississippi River Ecosystem Restoration projects as well as small stream restoration projects for the USEPA.

Mr. Wallace has also worked on multiple design projects for the Regulating Works project supporting the District's Navigation mission. He recently completed a one-year detail as the section chief of the Hydraulic Design section with 18 employees assigned to him during that time.

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.

Sustainability Committee Seminar



ASCE St. Louis Sustainability Committee Seminar SIUE GREEN ROOF ENVIRONMENTAL EVALUATION NETWORK

Speakers:

Susan Morgan, Ph.D., P.E., Bill Retzlaff, Ph.D., Serdar Celik, Ph.D.

Date and Time:

Thursday, February 27, 2020, 4:00 PM – 5:00 PM

Seminar Information:

Location: Havana Room, 4240 Duncan Ave, St. Louis, MO 63110
Free drink will be provided at the venue by Venture Café St. Louis

Attendees will earn 1 free PDH, Event is FREE

RSVP at <https://rb.gy/cuhhk>

Parking information: <https://vencafstl.org/contact/>

Short Description:

This presentation will introduce SIUE's Green Roof Environmental Evaluation Network (G.R.E.E.N.) and provide an overview of SIUE's research/training activities along with presenting select results of research on stormwater and thermal effects of green infrastructure.

If you have any questions or you are interested in presenting at the committee seminars, please contact the committee chair, Siavash Zamiran, at szamiran@meacorporation.com

SPEAKERS:



Dr. Susan Morgan, P.E., Professor in Civil Engineering and Associate Dean of the Graduate School at Southern Illinois University Edwardsville



Dr. Bill Retzlaff, Distinguished Research Professor in Biological Sciences and Associate Dean of the College of Arts and Sciences at Southern Illinois University Edwardsville



Dr. Serdar Celik, Professor in the Department of Mechanical Engineering at Southern Illinois University Edwardsville



ST. LOUIS CHAPTER
MISSOURI SOCIETY OF
PROFESSIONAL ENGINEERS



Missouri Society of Professional Engineers (MSPE) and Missouri Water Environment Association (MWEA) January Joint Luncheon Thursday, January 16, 2020

NPDES Permitting 101.... and Beyond

Abstract: NPDES Permits are like opinions...everyone has one. This session will focus on providing the audience with a basic, but deep understanding of municipal wastewater permitting. It will show some of the nuances in permitting and what to be aware of as you file your permit application and review your final NPDES Permit. The two presenters, a former Missouri State regulator and an engineer from a leading design/build firm will guide the audience through the intricacies of the State's rule and regulations that can make the permit process challenging for the utility operators and managers to understand. The presenters will illustrate how and why analytical sample results from past years impact current permit effluent limits. Finally, this session will show the attendees the "numbers" behind the "trade-craft" of NPDES Permit development.

Lacey Hirschvogel is the Environmental and Public Policy Manager with Missouri Public Utility Alliance. She leads the Missouri Public Water Council, a branch of MPUA that focuses on training, education, and planning assistance for municipal water and wastewater utilities. Lacey advocates for MPUA's members on legislative and regulatory issues. Lacey joined MPUA after working for the Department of Natural Resources' Water Protection Program as an environmental scientist where she wrote municipal National Pollutant Discharge Elimination System (NPDES) wastewater permits and developed state policy and regulations. She graduated with a Bachelor of Science degree in Chemistry from the University of Florida and a Master of Public Affairs degree at the University of Missouri.

Jeff Barnard, P.E. is the Global Practice Leader at Burns & McDonnell's St. Louis regional office. He has a strong background in capital improvements planning for wastewater systems, including wastewater needs forecasting; inflow & infiltration studies; system hydraulic modeling; wet weather storage facilities; sewer system evaluation surveys; corrosion evaluation and control; system rehabilitation; and NPDES permitting. Mr. Barnard has specific experience in the design of pump stations, gravity sewers, and treatment plant processes.

Time, Date, Location

11:30am to 1:00pm, January 16, 2020, at the Engineering Center, 4359 Lindell, St. Louis 63018. Registration starts at 11:30am and lunch is served at 11:45am. The program will begin promptly at 12:00pm. One (1) PDH is available.

Cost: \$20/person

Registration : <https://mspe.org/event-3635091>

Please register and pay online using the link above for reservations by 5:00pm, Thursday, January 9th, 2020.

Professional Engineer Refresher Course

These review courses are geared toward helping participants pass the Professional Engineer (P.E.) license exam. Spring classes will be held in the fields of:

- Civil- Water Resources, Geotechnical; Transportation, Construction, Structural;
- Mechanical-Mechanical Systems/Materials, Hydraulics & Fluids, Energy & Power Systems, HVAC/Refrigeration; and
- Electrical-Power

Course fee includes a three-ring binder, lecture notes, certificate of completion, and CEU's.

It is recommended that participants purchase their discipline's desk reference manual prior to the first class. Desk reference manuals can be obtained by going to the following website: <http://ppi2pass.com>

**Deadline for Registration:
January 23, 2020**

How to Enroll – 4 Ways to Register:

1. **Online** – To register online, go to www.stchas.edu/learnforlife
2. **By Mail** – Complete the registration form, attach your check or money order, and mail to:
SCC, Division of C&CD
4601 Mid Rivers Mall Dr., HUM 103
Cottleville, MO 63376-2865
3. **In Person** – Walk into 103 HUM with completed registration form and payment. Registration hours:
 - 8 a.m. – 5:30 p.m. Mon-Thurs.
 - 8:30 a.m. – 4:00 p.m. Fridays
 - After-hours drop box in HUM hallway
4. **By Phone** – Call 636-922-8233 during the hours listed above. Telephone registration: VISA, Discover, and MasterCard only accepted as payment. Registration Fee:
 - \$550 for MSPE & SAME members
 - \$600 for ASCE, ASME, ASHRAE & IEEE members
 - \$650 for non-members

Course content inquiries should be directed to

Lisa Cheng, P.E.

(314) 425-8355 or

lisa.cheng@hdrinc.com

For more details, please see the [Brochure here](#).



Academic Employee: Research Engineer Position No. 00075187

The Center for Intelligent Infrastructure at Missouri University of Science and Technology (formerly University of Missouri-Rolla) seeks to expand its research capabilities in autonomous inspection and maintenance of civil infrastructure (e.g., bridges and tunnels) by inviting applications for a research engineer position, commencing around October 15, 2019. The annual salary for this position with full benefits is around \$60,000, depending on candidates' background and experience.

The successful candidate will be expected to demonstrate ability to work in laboratory and field environments and willingness to do heavy lifting and long distance travel. Candidates must have an earned undergraduate degree in civil engineering from an ABET/EAC accredited program or equivalent, and at least 1 year of practical experience in bridge inspection and maintenance, particularly with the state department of transportation. Superior communication and interpersonal skills, leadership capabilities, the ability to engage in collaborative and interdisciplinary research projects, and the ability to motivate and inspire undergraduate and graduate students are also required attributes. Licensure as a professional engineer in civil engineering is required or must be attained in the State of Missouri within 1 year of appointment. Knowledge about any bridge management software such as PONTIS is strongly encouraged. Familiarity to nondestructive evaluation and test of bridges is a plus.

The Center for Intelligent Infrastructure has recently been established at Missouri University of Science and Technology in recognition of nation's growing interests in infrastructure research using advanced technologies such as robots, remote sensing, nondestructive evaluation, structural health monitoring, data analytics, and asset management. The Center currently has expertise in civil engineering, computer science, economics, electrical engineering, engineering management and systems engineering, power engineering, and multi-hazards engineering (earthquake, tornado, flood, etc.). Its current research programs are focused on the preservation, safety, resilience, and sustainability of transportation infrastructure systems. The Center is envisioned to extend its autonomous inspection and maintenance capabilities from bridges to other infrastructures such as dams, building, levees, offshore platforms, pipelines, power plants, roads, transmission towers, and tunnels. The successful candidate will have the opportunity to interact with interdisciplinary research teams across campus, including the Tier I University Transportation Center (see <http://inspire-utc.mst.edu/>), Mid-America Transportation Center (see <https://matc.unl.edu/>), the National Center for Transportation Infrastructure Durability and Life-Extension, the Center for Infrastructure Engineering Studies (see <http://cies.mst.edu/>), the Wei-Wen Yu Center for Cold Formed Steel Structures (see <http://ccfssonline.org/>), the Intelligent Systems Center (see <http://isc.mst.edu/>), and the Materials Research Center (see <http://mrc.mst.edu/>).

Review of applications will begin on September 15, 2019 and will continue until the position is filled. Interested candidates should electronically submit an application consisting of a cover letter, a current curriculum vitae, a statement of research interests and goals, and complete contact information for three references to the Missouri University of Science and Technology's Human Resource Office using the following link <https://hr.mst.edu/careers/>. All submitted application materials must have the position reference number 00075187 in order to be processed. Acceptable electronic formats that can be used for email attachments include PDF and Word; hardcopy application materials will not be accepted.

Missouri University of Science and Technology participates in E-Verify. For more information on E-Verify, please contact DHS at 1-888-464-4218. The final candidate is required to provide official transcript(s) for any college degree(s) listed in application materials submitted. Copies of transcript(s) must be provided prior to the start of employment. In addition, the final candidate may be required to verify other credentials listed in application materials. Failure to provide official transcript(s) or other required verification may result in the withdrawal of the job offer. Females, minorities, and persons with disabilities are encouraged to apply. Missouri University of Science and Technology is an affirmative action / equal opportunity employer and is responsive to the needs of dual-career couples.



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 Top Workplace by the St. Louis Post-Dispatch for 2017 and 2018. 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.

Transportation Project Engineer

CLASSIFICATION: FULL-TIME

OFFICE LOCATION: St Louis, MO

YEARS OF EXPERIENCE: 5-10 YEARS

Horner & Shifrin is seeking a full-time Transportation Project Engineer. This position requires 5-10 years of experience. This position is assigned specific, high-responsibility-level tasks on project teams; and are expected to resolve engineering/architectural problems and tasks as they are assigned; with help as needed, from more experienced staff.

POSITION REQUIREMENTS:

- Candidate will work under licensed engineer
- Will be trained/proficient in the use of Microstation and Geopak or AutoCAD Civil 3D
- Ability to produce construction bid documents (plans and specifications)
- Proficiency using Microsoft Office software (Outlook, Excel, Word)
- Other duties as assigned

EDUCATIONAL REQUIREMENTS: B.S. in Civil Engineering

SALARY RANGE: Salary will commensurate with experience.

THD Design Group

civil - geotechnical - surveying

Be a part of THD Design Group's growth in the local geotechnical community (formerly Gateway Geotechnical). Please respond in confidentiality, to our mailing address at 148 Chesterfield Industrial Boulevard, Suite E, Chesterfield, Missouri 63005, attention Geotechnical Services, or electronically to TMike@THDDesignGroup.com. Applicants may be subject to a background check and/or drug testing.

GEOTECHNICAL ENGINEER

Sound basis in geotechnical engineering. Strong capability and experience in written and oral communications. Includes planning and executing geotechnical exploration programs and other field and laboratory testing, drilling/sampling, and construction activities including proficiency with geotechnical software, such as slope stability programs. Calculations include foundation type and excavation, bearing capacity and settlement, and construction of buildings and supporting structures for public and private clients. Minimum of 3 years applicable and increasing experience, and professional registration in Missouri are pluses. Recent graduates ready to be mentored will be considered.

GEOTECHNICAL TECHNICIAN

Full or part-time position for observation/coordination with clients and in-house engineers, relative to site preparation, sample collection, soil and rock compaction, and concrete testing. Some laboratory testing included. Requires minimum of 1 to 5 years applicable experience. Certification to operate nuclear density meter, and other MoDOT field and laboratory certifications are pluses.

* * *



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



Structural Engineer II

www.lochgroup.com

Lochmueller Group is currently seeking a Structural Engineer II to work in the St. Louis, MO office, St. Charles, MO office, or Troy, IL office.

The Structural Engineer II will focus is the preparation of plans and/or reports associated with new and rehabilitated highway bridges and other structures to include retaining walls and water/wastewater structures and facilities. The Structural Engineer II has developed the skills and expertise required to assign and delegate tasks for a small number of junior staff in the production of work.

Duties:

- Assisting with the development of project scopes, budgets and schedules for contract development.
- Coordinating with other Lochmueller Group departments and sub-consultants to assign project scope, budget and schedule.
- Organizing work flow within the design team assigned and taking responsibility for the timely completion of the tasks assigned within allocated budget and schedule.
- Performing design type functions related to geometric and structural design, hydraulic computations and plan preparation, including structural details utilized in CAD.
- Develops computer models in various software to aid in design development
- Performs quantity computations and cost estimates
- Prepare and develop various preliminary engineering studies.
- Performs a quality check of work assigned to junior staff and Engineering Technician/Designers.
- Lead or Perform bridge inspections in accordance with NBI Standards, load ratings and develops inspection reports.
- Communicating the status of the project task assignment status to the Project Manager.
- Performing verification that project designs are in conformance with the latest design specifications.
- Performing related work as required.

Qualifications:

- Registered Professional Engineer
- MoDOT & IDOT bridge project experience preferred.
- In-depth knowledge of Microstation or AutoCAD
- In-depth knowledge of structural software
- In-depth knowledge of Microsoft Office products
- Ability to work well independently and in a team environment.
- Strong verbal and written communication skills.

Education:

- B.S. in Civil or Structural Engineering from an ABET accredited institution.

Experience:

- 4+ years of experience

SPECIAL INSPECTIONS & DESIGN

POSITION: Structural Engineer

DESCRIPTION

Special Inspections & Design is a leading provider of specialized engineering services in the structural, civil, industrial, and welding fields in Missouri, Illinois, and California. Our professionals are technical experts in structural engineering design, special inspections, and nondestructive testing.

We are seeking an experienced Structural Engineer (5 – 10 years) for an opportunity to work on a wide variety of projects. The position will be based out of our Collinsville, IL office. You will be responsible for analysis and design of structural systems and components using structural steel, concrete, masonry, wood, and light gage steel. Your duties will include preparation of construction drawings and specifications, visual structural inspections, report preparation, and construction review.

QUALIFICATIONS

Qualified candidates must have:

- BS in Civil Engineering (MS is a plus).
- PE license (SE is a plus).
- Minimum 5 years experience (5 – 10 years is ideal).
- Working knowledge of structural engineering software (RISA is ideal).
- Working knowledge of IBC and other national standard codes.
- AutoCAD proficiency.
- Good written and oral communication skills.

TO APPLY

Please send resume and any questions to Ashlee Peno at ashleepeno@SIDengineers.com

For more information about our company please visit www.SIDengineers.com

ASSISTANT PROFESSOR (Two Positions)

DEPARTMENT OF CIVIL AND ENVIRONMENTAL ENGINEERING

SOUTHERN ILLINOIS UNIVERSITY CARBONDALE

Engineering at SIU Carbondale invites applications for two full-time, continuing, tenure-track faculty positions at the rank of Assistant Professor: one in the area of Water Resources Engineering (ENGR-244) and the other in the area of Environmental Engineering (ENGR-245). Applicants for both positions must have an undergraduate degree in Civil Engineering and an earned doctorate in Civil Engineering or a closely related engineering field by the time of appointment at SIU Carbondale. ABD applicants will be considered if all requirements for the Ph.D. will be completed by August 15, 2020. If all degree requirements are not completed by that date, a term, non-tenure track appointment may be offered in accordance with University policy (http://policies.siu.edu/personnel_policies/chapter2/ch2-faps/conting.php). For position ENGR - 244, applicants must have a specialization in the area of Water Resources Engineering. For position ENGR - 245, applicants must have a specialization in the area of Environmental Engineering. Special consideration will be given to applicants with professional practice experience. In addition, professional engineer (PE) licensure is desirable and will be required for tenure. Applicants for both positions must have a demonstrated potential for high quality research and teaching undergraduate and graduate courses in Civil Engineering, Water Resources Engineering (for ENGR-244), and Environmental Engineering (for ENGR-245), with research documented by publications and/or funded projects. The department provides support and excellent opportunities for the development of new faculty. For additional information on the positions, please visit www.siu.edu/jobs.

Applicants must submit a cover letter which specifies the position being sought and which clearly describes the candidate's qualifications for the position, a complete vita, a teaching statement (maximum 2 pages), a research statement (maximum 2 pages), and a list with complete contact information for at least three references to:

Chair-Faculty Search Committee
Department of Civil and Environmental Engineering
Mail Code 6603
Southern Illinois University Carbondale
1230 Lincoln Drive
Carbondale, IL 62901
jlangin@siu.edu

Application deadline: November 15, 2019 or until filled. Anticipated starting date is August 16, 2020.

SIU Carbondale is an affirmative action/equal opportunity employer of individuals with disabilities and protected veterans that strives to enhance its ability to develop a diverse faculty and staff and to increase its potential to serve a diverse student population. All applications are welcomed and encouraged and will receive consideration.



Missouri Section

American Water Works Association

Section Administrative Manager

Salary - Commensurate on education & experience; \$25,000.00 - \$35,000.00 annually

Location - State of Missouri

Position type - Part time
(Average of 20 hrs/week, at times more)

Description

The Missouri Section of the American Water Works Association (Section) is currently seeking a Section Administrative Manager to assist in all manner of Section business under general supervision of the Section Chair and Section Board of Trustees (Board). Responsibilities will include the general management of the affairs of the Section, coordinating daily activities of the Section, establishing and maintaining Section administrative & historical records, meeting minutes, and the Section Roster, maintaining & managing a Section calendar of events, and developing & maintaining an effective communication program for the Section membership, Board, and Committee Chairs. The successful candidate will be responsible for maintaining the Section's primary telephone number, email address(s), and postal address; serving as the primary point of contact for outside entities and the American Water Works Association (Association) by responding to inquiries directly and/or routing to the appropriate Section member, and performing other duties as required. The candidate will be required to establish and maintain familiarity with Section and Association policies, benefits, programs, etc. for the benefit of the Section. The Administrative Manager will be heavily involved in the execution of the Section's Joint Annual Meeting; attending for the duration, assisting with conference registration prior to and on-site, receive & respond to communication, conduct onsite registration, record & maintain Section business conducted, and maintain conference records.

Requirements & Qualifications

- Graduation from a 4-year college with a degree in management, business administration, or related with at least 3 years of administration professional experience or equivalent combination of education and experience.
- Intermediate to advanced basic computer skills, including familiarity with Microsoft Office product suite, website content development, and Google web tools such as Drive.
- Be able to effectively work in an environment with multiple personalities and working dynamics.
- Working experience and/or substantial knowledge of a nonprofit entity's organization, structure, and functionality; with strong preference for experience in the water industry.
- Possession of a valid State of Missouri driver's license, or the ability to acquire one within three (3) months of employment.
- Reside in or be willing to relocate to the State of Missouri.
- Willingness and ability to travel multiple times per year within and outside the state, including furnishing of your own reliable vehicle. (Approved travel for Section business is reimbursed.)
- Bondable by a bonding agency.

To apply email cover letter & resume to Bob Parks at rpindop@gmail.com

First review of applications November 13th, 2019