

March 2021

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Upcoming Events

March

- 11 YMG Monthly Meeting – *Benefits of ASCE Memberships*
- 12 Geo-Institute Monthly Meeting
- 18 EWRI Monthly Speaker Series Webinar
- 22-25 MO Legislative Drive-In activities

April

- 8 YMG Monthly Meeting – *Engineering Mindfulness Workshop*
- 20 Region 7 Awards nominations due
- 22 Geo-Institute Case Histories Seminar

May

- 13 YMG Monthly Meeting

Follow the Section and share with your network.



Update your bookmarks with our new Section website

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



March Luncheon Webinar Tuesday, March 9, 2021

New ASCE Code of Ethics

Presenter: K. N. Gunalan, Ph.D., P.E., F.ASCE, D.GE., ASCE 2020 President

Abstract:

Professional codes of ethics should serve as a "living document," growing and expanding to reflect the standards and morals of the profession. This presentation will briefly review the history of ASCE's Code of Ethics and will discuss how the new code approved by ASCE's Board in October 2020 aims to better serve current and future engineers.

About the Presenter:

K.N. Gunalan (Guna) is Senior Vice President of transportation Alternative Delivery, Americas at AECOM, based in Salt Lake City, UT. Previously, he was a Vice President at Parsons Brinckerhoff (WSP).

Guna has managed large complex infrastructure projects, providing technical advice on civil, structural, geotechnical, pavement, and materials issues on a variety of projects around the world. His collaborative approach has contributed to many successful programs and projects ranging from a few thousand dollars to more than 3 billion dollars.

He has been active in ASCE for many years, including leadership roles as Region 8 director (2009-2012), Region 8 governor (2005-2007), Utah Section president (2002-2003), and Texas Section High Plains Branch president (1992). He served as the chair of ASCE's 2014 Global Engineering Conference in Panama City, Panama, in celebration of the 100th anniversary of the Panama Canal. Most recently, he served as a governor for the Geo-Institute and was a member of the steering committee for the 2017 ASCE India Conference.

In lieu of a luncheon, ASCE, is providing this continuing education webinar. You are invited to participate in the webinar remotely from your individual location. The cost for participating is free. **Please register by 9:00 PM on Monday, March 8, 2021.** A link to access the webinar from your computer will be provided upon registration.

[Please click here to sign up!!!](#)

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President's Message



March is my favorite month of the year, particularly the last half of March. The increasing daylight hours is very noticeable. (the sun beat me waking up!) The weather is warming up. Spring officially starts. My birthday. Spring training baseball games. So much to look forward to!

But I do want to highlight our last week of February. I want to thank Brent Vaughn and YMG members Michelle Bresnahan and Nichole Witushynsky, who recently attended the E-Week virtual Discovery Fair last week hosted by The Engineering Center. Your dedication to our Section is what energizes me and helps advertise the social aspect and camaraderie ASCE can provide for civil engineers. Hopefully, next March our new President will be recapping our events we had at the Science Center and how many energized future engineers we engaged with.

Speaking of the YMG, I want to remind you our St. Louis Section has many wonderful committees and institutes available for your willing hearts and eager minds. And all of them will welcome additional volunteers to help run their initiatives. Anything from helping to plan our annual dinner (Annual Dinner) to organizing a technical tour to working on applying for a historical plaque (History & Heritage), or even reaching out to your favorite teacher to speak to their class about how this teacher inspired you to Dream Big (Pre-College Outreach). You don't have to run it. Just pitch in with some ideas from time to time.

Check out our list of Section Committees and Institute Chapters at <http://sections.asce.org/st-louis/contacts> .

Looking forward in March, the quadrennial (it is a word!) national ASCE Report Card is/was just released on March 3. The last report card gave our country a D+, and indicated close to \$2 trillion are needed to invest in our national infrastructure (over 10 years). Click on <https://www.infrastructurereportcard.org/> to find out if we are off academic probation.

- Jordan

Impact of Coronavirus on Scheduled ASCE Programs

Per a [recent memo](#) from Jean-Louis Briaud, ASCE President and Thomas W. Smith III, ASCE Executive Director:

“Unfortunately, recent weeks have seen sustained, and even increasing, community spread of the virus. In view of this concern, and recognizing our ethical obligation to protect the public health, safety and welfare, we strongly encourage you to pursue alternative options, such as the use of virtual platforms for meetings to be held through **June 30, 2021.**”

All ASCE Institute, Region, Section, Branch, Younger Member and Student Leaders should review the full [memo](#) to better understand our obligations regarding meetings, events or other activities.

More general information and details for events can be found at <https://www.asce.org/covid-19/>.

ASCE Region 7 Awards program

ASCE Region 7 is accepting nominations for the ASCE Region 7 Awards program. This is a great opportunity to recognize the dedicated volunteers in your sections and branches. The deadline for submittal is [April 30, 2021](#). Please consider a nominee for each category. **I also ask that you distribute this email to your Section and Branch members as well as Student Chapters and encourage nominations.**

ASCE Region 7 Awards for the following categories:

- Outstanding Younger Member
- Outstanding Faculty/Practitioner Advisor
- Lifetime Achievement

The forms are posted to the ASCE Region 7 site <http://regions.asce.org/region7/awards>

We encourage you to provide at least one nominee for each award from your Branch or Section. Multiple nominations from Sections and Branches for each award are welcomed.

We hope you all take the time to recognize those hard-working individuals within your Section and Branches who are deserving of these awards. Again, nominations are due April 30, 2021. If you have any questions or need additional information, please feel free to contact me. I look forward to hearing from you.

Jennifer Jacka-Taylor, P.E., ENV SP, M.ASCE
ASCE Region 7 Governor

Open Committee Positions

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.

10th Annual Missouri Legislative Drive-In



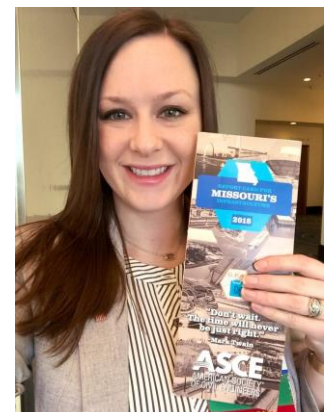
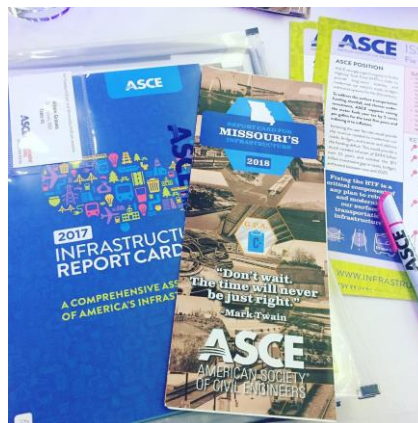
10th Annual MO Legislative Drive-In for Infrastructure Development Training Session – March 22th, 2021 @ 10am Virtual Legislator Meetings – March 22-26, 2021

Please join us for the MO Legislative Drive-In to advocate for industry issues *virtually*. On Monday, March 22th at 10am, we will be hosting a Training Session for all attendees to receive our state's packet of information and discuss how to conduct virtual meetings. Information provided will include the Missouri Report Card for Infrastructure, bills of interest moving through the legislature, and specific talking points to communicate with your legislator, etc. Attendees are to contact their MO State Representative and Senator to schedule their own meetings throughout the week at a time that works best for both parties. Each legislator is different – some may want you to set up the meeting using your platform, while others may prefer to organize it and invite you. [Look up your legislators here!](#)

The Government Relations Committee believes that virtual visits with our state representatives and senators will take less time than our regular drive-in and allow more of our members to participate. We invite ASCE members to join us for our training session and virtual meetings. You can listen in or actively participate, whatever you decide. Our hope is that, after participating, you will decide setup virtual meetings with the legislators in your districts. Our committee members will be glad to join you in the discussion and present information on the current condition of our infrastructure in Missouri.

If you're interested in participating this year, contact Dennis Boll at 314.568.3125 and dboll@geotechnology.com, or Alison Graves at 314.540.5925 and agraves@civildesigninc.com. We're happy to answer any questions!

Thank you.



Illinois Section Report Card

Every four years, the Illinois Section prepares this Report Card, providing a simple 'grade' for various categories of Illinois' infrastructure. With 2010, 2014, and 2018 in the books, we have started organizing for our 4th Report Card. We are currently organizing the team and anticipate having a kickoff meeting in the April / May timeframe, followed by preparation throughout 2021. The Report Card release is anticipated for Spring 2022.

There will be 11 subcommittee categories, including a new Stormwater subcommittee. Each of the 11 subcommittees is anticipating to have an average of 3 authors, for a total of about 33 volunteers! Below are the subcommittee categories:

1. Aviation
2. Bridges
3. Dams
4. Drinking Water
5. Navigable Waterways
6. Ports
7. Rail
8. Roads
9. Stormwater – **New This Year!**
10. Transit
11. Wastewater

The Illinois Section needs a large, diverse group of civil engineers to collect and organize data, to author, and to talk to the media. If you or any of your members are interested in participating in the 2022 Report Card development or would like to learn more about it, please reply to this email and/or contact Illinois Section President Brian Pawula (cc'd) at brianp@thomas-engineering.com.



EWRI ST. LOUIS MONTHLY SPEAKER SERIES EVENT

The St. Louis Section of EWRI is pleased to announce our monthly webinar **on Thursday, March 18, 2021 from 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, March 15, 2021.** Please register online at the following link:

[EWRI March 2021 Speaker Series Presentation](#)

Registrants will receive detailed login and dial-in information prior to the event.

COMBINING WATER OPERATIONS AND HEC-RAS MOBILE-BED MODELS FOR IMPROVED RESTORATION PLANNING: A CASE STUDY FROM NEW MEXICO

The U.S. Army Corps of Engineers (USACE) Albuquerque District and Tetra Tech have long collaborated on the development of two models: the Upper Rio Grande Water Operations Model (URGWOM) and a mobile-bed sediment transport HEC-RAS model that extends from Cochiti Dam to Elephant Butte Reservoir (170 river miles).

URGWOM is a daily and monthly timestep water operations hydrology model used by USACE, U.S. Department of the Interior, Bureau of Reclamation, and the New Mexico Interstate Stream Commission to forecast dam operations and river flow. The Middle Rio Grande HEC-RAS mobile-bed sediment transport model, developed by Tetra Tech, is for USACE to understand how various flood control and irrigation projects have impacted the geomorphic evolution of the Middle Rio Grande.

Using results of a 2017 URGWOM planning study, the two models were run in series. This presentation will demonstrate how existing models developed for different purposes can be combined to provide valuable insight into river planning.

SPEAKER

Kyle Shour

Kyle Shour is a 2009 graduate of the Missouri University of Science and Technology's civil engineering program. After graduating, he attended the University of New Mexico where he researched sediment transport and geomorphic change in river restoration features on the Rio Grande in Albuquerque and developed physical models of stormwater quality features in supercritical flow. After completing his master's degree, Kyle began working for Tetra Tech, Inc. in Albuquerque on projects related to hydrographic data collection, dam operations hydrology, open channel hydraulics, sediment transport, and geomorphology. He now resides in Grand Rapids, Michigan with his wife and two children. He enjoys hiking, mountain biking, trail running, and Hatch green chiles.

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.



**GEO-
INSTITUTE**
St. Louis Chapter



Call for Abstracts

St. Louis Chapter of the Geo-Institute of ASCE Presents

Case Histories Seminar and Student Projects

DATE: April 22, 2021

TIME: 11:00 am to 1:00 pm

LOCATION: Virtual Event (details to follow)

PDH credits will be available.

The Geo-Institute is accepting **abstracts** for our annual Case Histories event. The committee is seeking speakers to provide a 30 to 60-minute presentation focused on geotechnical engineering projects. Please submit abstracts to Jake Schaeffer (jschaeffer@millennia.pro), Geo-Institute chair. The event will be held virtually and additional details will be provided closer to the event date.

Student research presentations will be presented ahead of the speakers for the event.

A limited number of **sponsorship opportunities** are available for this event. If interested, please contact Xiaomin You (xiaomin.you@wsp.com), Geo-Institute vice chair.

Geo-Institute St. Louis News

The Geo-Institute is having our March virtual meeting **Friday, March 12 at 7:30 AM.**

Contact Jake Schaefer at jschaeffer@millennia.pro for more information.



**GEO-
INSTITUTE**
St. Louis Chapter

Younger Member Group Update

**Please join us for our virtual meeting!
March YMG Meeting**

Thursday, March 11, 2021
12:00 - 12:45pm

ASCE St. Louis Section President, Jordan Pettibone, PE, will be speaking on the benefits of ASCE and how to get involved with ASCE at a National level.

Join Zoom Meeting

<https://zoom.us/j/96072333694?pwd=Mk1tem9xSHdBWV4S2psTFBIRmpkZz09>

Meeting ID: 960 7233 3694

Passcode: fU78EL

Virtual Meetings – *We are moving forward with virtual meetings until further notice. Each meeting will offer important section updates, professional development opportunities, volunteer opportunities, and of course, door prizes. Set your calendar!*

April 8, 2021 12:00 - 1:00 pm - Engineering Mindfulness Workshop

Through this Engineering Your Mind Workshop, we will explore skills you can use to manage your own stresses, the science behind mindfulness, and an overview of how mindfulness practices can strengthen soft skills necessary in technical careers for successful teamwork and leadership. The workshop will end with a 10-minute meditation.

Elyssa Dixon is a registered Professional Engineer, mindfulness and meditation coach, and founder of fleeceandforests LLC. She worked as a civil engineer in consulting for almost 8 years and realized that her passion lies in helping others succeed. Elyssa's mindfulness practice profoundly changed her life by improving her wellbeing and making her a better leader and team member. She has trained as a meditation and mindfulness teacher, understands what it means to be driven and to want to make a difference while managing interests outside of work. She has developed and presented leadership training sessions focused on personal growth and leadership skills utilizing her unique understanding of the consulting world coupled with mindfulness.

This workshop will occur during our April monthly meeting. However, the Zoom link below will be necessary to access the workshop rather than our standard monthly Zoom invite. **Please feel free to share with other ASCE civil engineering friends and coworkers!**

Join Zoom Meeting

<https://zoom.us/meeting/register/tJYpcuGtqzwrGNX5rM95gWLIDQzayWA8XVSI>

- May 13, 2021 12:00 - 12:45 pm

Contact Michelle Bresnahan, YMG Chair, at MBresnahan@lochgroup.com if you would like to be added to the email list or if you have any questions or comments regarding the YMG Update.

Work Zone Awareness 5K Run



ST. LOUIS
WORK ZONE AWARENESS RUN
Work Safe. Drive Safe. Save Lives.

2021

#STLWZARUN



APRIL 26 - MAY 2
WORK ZONE AWARENESS 5K

VIRTUAL
1 MI / 5K / 10K
Register to run **here.**



Registration link is

<https://runsignup.com/Race/MO/SaintLouis/WorkZoneAwarenessVirtual5K> .

University News

Missouri S&T ASCE Student Chapter

We have remained active in addressing the challenges and impacts of COVID-19, and has worked to develop joined efforts with the student chapter at the Missouri State University – Missouri S&T cooperative program. Activities have focused on virtual events and working to connect our students as well as alumni with engaging topics and speakers. Recent speakers included:



- **Brent Massey, P.E. - CEI Engineering** *“Invisible Engineering - Solving Complex Problems You Can't See! Crystal Bridges Museum of American Art.”* Feb 10, 2021
- **Kristina Swallow, P.E., F.ASCE - Nevada DOT Director and Past President ASCE** *“Influencing U.S. Policy to Modernize our Infrastructure”* Feb 24, 2021 (4PM)

Each event had 60- 90 attendees, including ASCE members and alumni from across the country, as far away as California, Florida, Texas, Virginia, and Michigan. We appreciated our valued speakers for giving of their time and insight. In particular, Ms. Swallow’s views as a past ASCE President on the pending release of the infrastructure report card was very insightful, and we are excited for the release of the newest report card later this week. We have two pending talks that may be of interest and are open to ASCE members:

- **Karin Jacoby, Esq., P.E. – Partner, Husch Blackwell** *“Regreening the Blue - A 100-year tale of an urban waterway in the Kansas City region”*
7:00 PM - March 17th, 2021
<https://umsystem.zoom.us/j/94989363395?pwd=SVGNIBrdFFtdjhJRGxpa1FndTNuUT09>
- **Rich Henry, President, Northern Pacific Region at McCarthy Building Companies,** *“Leadership in Today’s AEC Industry”*
7:00 PM - March 31st, 2021
<https://umsystem.zoom.us/j/96698877166?pwd=eGx4L3VjWTFaOFZaZG16TTJMcEIBQT09>

We are excited for one of our S&T students, as Civil Engineering Senior Erin Bereyso was recently selected as one of the **10 ASCE’s New Faces of Civil Engineering** program, highlighting the next generation of civil engineering leaders. Erin has served as our Chapter President and been active in ASCE design teams, as well as attending ASCE leadership conferences. Congratulations to Erin!

Please join us for the above talks and join for our other activities. Chapter site: [ASCE.MST.EDU](https://www.asce.mst.edu) And Social media: Instagram: [ASCE_MST](https://www.instagram.com/asce_mst) Facebook: [Missouri S&T ASCE](https://www.facebook.com/MissouriS&TASCE)

The academic offerings at Missouri have expanded and progressed, both on campus and online. In fall 2021, three new graduate certificates and a new joint Master of Science in **Water Science Engineering** will be available this fall, and can be completed entirely online. Only four core courses (12 credit hours) are required to complete a graduate certificate program, and new offerings include: **Advanced Materials for Sustainable Infrastructure, Building Systems Engineering,** and **Surface Water Resources.** Completing the certificates gains admission to the masters programs and counts towards completion. More information for the programs are at: <https://distance.mst.edu/care/>.

We are always looking for more opportunities to engage with our profession and to build the legacy of Civil, Architectural and Environmental Engineering and ASCE at Missouri S&T

Respectfully

Chris Steinbach, Chapter President, Brenan Pool, Chapter Publicist, Dr. Joel Burken, Advisor



Employment Opportunities



CITY OF TOWN AND COUNTRY DIRECTOR OF PUBLIC WORKS

The City of Town & Country, MO, is seeking an experienced individual with proven leadership and management skills to serve as Director of Public Works. The Director reports to the City Administrator and oversees the professionals managing our building, code enforcement, and public works team.

Town & Country is a premier community of approximately 11,000 residents, covering approximately 12 square miles in the heart of St. Louis County.

The dynamic Public Works Department is an integral part of the community. The Director should have experience with residential and commercial building regulations and enforcement, street maintenance and construction, right-of-way maintenance, snow and ice control, code enforcement and facility management.

The Director of Public Works also works closely with the City Planner in reviewing plans for new developments. Broad experience in capital projects management and short and long-term planning for public operations and infrastructure is essential. Applicants must be “team oriented” with the ability to interact effectively with staff, the public, developers, and contractors.

City code requires a Bachelor’s Degree in Civil Engineering and Missouri registration as a PE.

The City offers an excellent benefit package including medical, dental and life insurance, and LAGERS retirement. Starting pay is approximately \$100,000.

Please submit resume, cover letter and recent salary history to City Administrator Bob Shelton at SheltonB@town-and-country.org or mail to: Public Works Director Search, The City of Town & Country, 1011 Municipal Center Drive, Town & Country, MO 63131.

Position will remain open until filled.

The City of Town & Country is an Equal Opportunity Employer.



JOB OPENINGS

Horner & Shifrin, Inc. is currently looking for candidates to fill the positions of:

Project Engineer (Transportation)

5+ years experience, proficient in Microstation & AutoCAD, Northwest Arkansas

Project Manager (Water/Wastewater)

5+ years experience in water & wastewater design, Poplar Bluff, MO

Project Manager (Civil/Site)

10+ years experience using Civil 3D CAD Modeling, O'Fallon, MO

Complete Streets Planner

ACIP certification preferred, BS in Urban Planning, St. Louis

Sr. Level Plumbing Designer or Engineer

10+ years exp., strong ability to work in AutoCAD and Revit, St. Louis

Design Engineer (Transportation)

Full time, 2 years experience, EIT certificate Chicago/St. Louis

Project Manager (Transportation)

10+ years experience, knowledge of GEOPAK SS4 or Civil 3D, Poplar Bluff, MO

Sr. Environmental Scientist

Experience working on NEPA projects St. Louis

Engineer (Structural Bridge)

Previous bridge design experience, OSHA 10 preferred, Chicago/St. Louis

Project Engineer (Structural Bridge)

5+ years exp., proficient in Microstation and/or AutoCAD, Northwest Arkansas

Please visit our website at [www. https://www.hornershifrin.com/careers/](https://www.hornershifrin.com/careers/)



Job Title: Professional Land Surveyor

Location: St Louis, MO

Civil Design, Inc. is a Certified Woman Business Enterprise, civil engineering firm of 70+ team members committed to building stronger communities in the markets we serve. Areas of focus include site development, surveying, transportation, water resources, structures and infrastructure and analytics. Civil Design Inc. is in its 24th year of business and has offices in St. Louis, MO, Effingham, IL and Louisville, KY.

Culture: CDI has a strong family-oriented culture with the drive to build stronger co-worker, client, and local communities. Guided by the values of continuous learning and growth, mutual trust and respect, ownership, and responsiveness – CDI offers a spirited team atmosphere driving quality engineering and strong client relationships

Job Description: Responsible for making precise measurements to determine boundaries and providing topographic data utilizing survey equipment and data collection software.

Essential Job Functions

- Coordinate, direct, and lead team members in the completion of Boundary and Topographical Surveys, Route Surveys, ALTA/NSPS Land Title Surveys, Utility Surveys and Constructional layout for private and government projects.
- Create and execute project work plans
- Manage multiple projects and delegate project tasks to team members.
- Managing day-to-day operational aspects of projects and scope.
- Perform reviews and quality assurance to insure adherence to project standards and methodologies.
- Experience with Trimble Robotic, GNSS and Conventional equipment, LiDAR Scanning equipment.
- Adhere to safety policies, procedures, and requirements of CDI.
- Primarily Office work, if needed some travel.

Knowledge, Skills and Abilities

- Comprehensive understanding of the principles and practices of land surveying.
- Advanced knowledge of mathematics through trigonometry and geometry and its application to field surveying.
- Proficient with Microsoft Office, MicroStation and other relevant software.
- Skilled in the use of surveying instruments including Trimble Robotic and GNSS equipment.
- Thorough knowledge and understanding of processing collected data through the completion of projects.
- Ability to work effectively in a team environment and possess strong interpersonal skills.
- Strong organizational and time management skills.
- Excellent verbal and written communication skills.
- Must be physically able to work outdoors and on construction sites under all weather conditions.
- Commitment to a safe working environment following safety policies, guidelines, and procedures.
- Ability to troubleshoot and problem solve.
- Familiarity with and knowledge of geographic area.

Desired Knowledge, Skills and Abilities

- Understanding of MicroStation, AutoCAD, Trimble Access, Leica Cyclone, Trimble, and Leica Instrumentation is a plus.

Education, Training and Experience Requirements:

- License: Missouri Professional Land Surveyor (PLS) Required. Additional state licenses a plus.

- Minimum of 3 years' experience as PLS.
- Prior experience with MicroStation, MoDOT Standards, AutoCAD, and Records Research.
- Must possess a valid driver's license and have a good driving record.

Working Conditions

Work is generally performed in the office but will include some outside work at various job sites. May be exposed to all kinds of weather conditions including extreme temperatures, rain, snow, high winds, humidity, and dusty conditions. Physical activity is required including walking, standing, carrying equipment, stooping, kneeling, and bending. May be exposed to exhaust fumes, dust particles, insects, wildlife, plants, poison ivy, and other environmental elements. Must be able to lift/carry 30lbs in field conditions. Up to 10% of work performed outside.

Core Competencies

- Building Trust – Interacting with others in a way that gives them confidence in one's intentions and those of the organization.
- Collaboration - Working effectively and cooperatively with others; establishing and maintaining good working relationships.
- Contributing to Team Success - Actively participating as a member of a team to move the team toward the completion of goals.
- Engagement Readiness - Demonstrating a willingness to commit to one's work and to invest one's time, talent, and best efforts in accomplishing organizational goals.

Job Title: Experienced Structural Project Engineer

Location: Civil Design Inc. (Louisville KY, Effingham IL or St. Louis, MO) Remote candidates will be considered

Civil Design Inc.: A certified Woman Business Enterprise, Civil Design, Inc. is a civil engineering firm of 70+ team members committed to building stronger communities in the markets we serve. Areas of focus include site development, surveying, transportation, water resources, structures and infrastructure and analytics. Civil Design Inc. is in its 24th year of business and has offices in St. Louis, MO, Effingham, IL and Louisville, KY.

Culture: CDI has a strong family-oriented culture with the drive to build stronger co-worker, client and local communities. Guided by the values of continuous learning and growth, mutual trust and respect, ownership and responsiveness – CDI offers a spirited team atmosphere driving quality engineering and strong client relationships.

Benefits:

Competitive Benefit Package including flexible working environment, health, dental and vision Insurance, 401(k) match, PTO and extended sick bank leave.

Job Duties

- In this role, the Structural Engineer will be an integral part of our Structures/Bridge Group designing various bridge types, as well as support our transportation and site development Groups with their design needs.
- Manage structural engineering projects by creating scope and budgets, directing the design and coordinating work with other staff and design team members.
- Strong knowledge of building materials (Steel, Concrete, Masonry, Wood), construction methods, structural inspections, construction document preparation.
- Analyze and design transportation related structures including: bridges, culverts, retaining walls, and sign structure foundations.

- Be a key point of contact with clients, contractors, and local officials.
- Eagerness to work on a wide variety of project types.
- Assist in the preparation of engineering project proposals.
- Work collaboratively with the CDI Group Leader, Project Engineers and other team members to develop effective solutions.
- Ensures compliance with CDI's safety procedures.

Required Skills

- Bachelor's degree in Civil or Structural Engineering
- Illinois, Indiana, Kentucky or Missouri PE required
- Bridge design experience
- Proficiency with MicroStation
- Department of Transportation structures experience (bridges and walls) (MoDOT, IDOT or KYTC).
- Highly proficient with structural analysis and design software
- Ability to work effectively in a team environment and possess strong interpersonal and communication skills

Desired Skills:

- Master's Degree in Civil Engineering or Structural Engineering.

Please apply at CDI's career page – www.civildesigninc.com ->Contacts -> Careers



Job Title: Senior Water Resources Engineer | Project Manager

Location: Civil Design Inc., St. Louis, MO 63110

Civil Design Inc.

A certified Woman Business Enterprise, Civil Design, Inc. is a civil engineering firm of 80+ team members committed to building stronger communities in the markets we serve. Areas of focus include site development, surveying, transportation, water resources, infrastructure & analytics, and structures. Civil Design Inc. is getting ready to celebrate its 25th year in business and has offices in St. Louis, MO, Louisville, KY and Effingham, IL.

Culture

CDI has a strong family-oriented culture with the drive to build stronger co-worker, client and local communities. Guided by the values of continuous learning and growth, first time quality, mutual trust and respect, ownership and responsiveness – CDI offers a spirited team atmosphere driving quality engineering and strong client relationships.

Core Competencies

In addition to the needed technical skills to perform this job successfully, an individual should also demonstrate the following competencies: Strong Communication, Collaboration, Positive Attitude, Adaptability and Analytical Thinking.

Responsibilities

- Design and management of treatment, wastewater collection, and water system conveyance facilities.

- Prepare grant applications, facility plans and coordinate with private and public stakeholders to secure project funding specifically for small and medium sized systems
- Ability to assist on water resources and resiliency aspects of multi-disciplinary projects for integrated water resources planning and watershed master planning
- Design improvements to wastewater treatment facilities to meet environmental regulations. These include wastewater lagoons, package plants, biological and mechanical treatment processes
- Mentor and develop engineering team members, specifically in environmental and wastewater engineering.
- Managing water, wastewater, and reclaimed water supply through planning, modeling and permitting
- Be a key point of contact with clients, contractors, and local government officials
- Work collaboratively with CDI managers, and other Project Engineers to develop effective solutions

Required Skills:

- Bachelor's Degree in Civil/ Environmental Engineering from a four-year college or university; PE required
- 7+ years' Experience
- Professional Engineer, licensed in Missouri with design experience with a focus on water resources
- Knowledge with preparation and review of Engineering Plans and Specifications to ensure that all aspects of project implementation are clearly conveyed
- Experience with hydrologic, hydraulic, and groundwater software
- Experienced in working with both governmental, and private clients in Missouri, Kentucky, and Illinois

Desired Skills

- Proficiency in XPSWMM, WaterGEMS, SewerGEMS and WaterCAD
- Proficiency with AutoCAD Civil 3D
- Experience with HECRAS, HECHMS, PondPak, HY-8
- Experience with GeoPAK Drainage

Prairie Engineers, P.C. is seeking an experienced Professional Civil Engineer to join their team.

Prairie Engineers is a full-service engineering, geospatial, and environmental science firm delivering sustainable infrastructure solutions for our natural and developed environment. We are a woman-owned firm with offices in Columbia, Hillsboro, Washington, and Springfield, Illinois; Keokuk, Iowa; 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 Civil Engineer experienced in site planning and/or transportation projects to their team to manage and perform infrastructure projects including planning, design, and construction administration services. This position will be a full-time position with benefits and a competitive salary based on previous experience. This position is available to be filled in any of our office locations.

Essential Job Functions:

- Ability to manage and perform the planning, design, and construction administration of federal, state, and local government, utilities, and industrial infrastructure projects in multiple states
- Manage, mentor and coordinate staff consisting of surveyors, engineers, environmental scientists, and CADD technicians
- Focus on project delivery and customer service with attention to detail and deadlines
- Ability to work both independently and as a team leader
- Develop proposals and estimates for various civil engineering projects
- Develop and maintain client relationships
- Communicate effectively with the internal and external project team
- Assist in the strategic management of the firm's civil engineering discipline

Minimum Qualifications:

- A minimum of ten years' relevant design experience
- Current licensure as an Illinois or Missouri Professional Engineer
- Proficient in Power GEOPAK, Open Roads, and/or AutoDesk Civil3D
- Familiarity with current local, state and federal Design Standards and Regulations or the ability to quickly learn and adapt to varying design standards
- Willingness to travel to meet project requirements
- Good verbal and written communications skills
- Ability to work collaboratively with a project team
- Project a professional, positive attitude with a strong work ethic

Preferred Knowledge, Skills, Abilities, and Experience:

- Ten or more years of design experience
- Past project management experience
- Design experience with Illinois DOT or Missouri DOT design standards, procedures, and requirements
- Strong familiarity with ArcGIS

Potential candidates for this position should fill out an application at www.prairieengineers.com and contact Prairie Engineers via e-mail at jobs@prairieengineers.com.

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.

Submit items to the newsletter...

Please try to get all announcements for placement in the newsletter to the Newsletter Editor by the 20th of the month prior to publication. Items may be sent via e-mail to Brent Vaughn (ASCE newsletter editor) at brent.vaughn.asce@gmail.com. **MS Word files are the preferred file type.** PDF files are also acceptable but may not look as sharp when inserted into the newsletter and hyperlinks will probably not carry through to the final version. For multiple page announcements, please consider providing a single-page flyer, concisely worded, with links provided to ancillary pages such as registration forms or other attachments. Also, please clearly include in the email subject line a concise title for the announcement and desired month(s) of publication.

Most news items will be available on the Section's Web Page, which can be reached via the link on ASCE National Website (www.asce.org). Click on "Geographical and International Units" to link to the Section or go directly to our page at: <http://sections.asce.org/st-louis/>. The Section's Website Editor is Jeff Smith e-mail: JESmith@HNTB.com or via feedback directly from our website.

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

This newsletter will be sent to all Section members via e-mail. Delivery of the newsletter hardcopy by First Class mail will be made upon request. Members have the responsibility to keep their contact information in the ASCE national database up to date. Please note that the St. Louis Section is only provided with members' PRIMARY information on file at the Society level. To ensure that we can contact you, please edit your PRIMARY information to contain the information where you would like the section to contact you and how you would like your information to appear in our annual roster.

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**ASCE – St. Louis Section
c/o The Engineering Center
4359 Lindell Blvd. St. Louis, MO 63108**