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**Upcoming Events**

October

- 13 YMG October Meeting
- 15 2021 Annual Awards Dinner
- 16 YEC/ASCE Kickball Tournament
- 18 EWRI Monthly Speaker Series
- 28 ASCE/T&DI October 2021 Luncheon  
and Webinar

November

- 4 Structural and Geo-Confluence
- 17 YMG Mtg Happy Hour Francis Park

December

- 15 YMG Winter Social

Follow the Section and share with your network.



Update your bookmarks with our new Section website

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



You are cordially invited to

# ASCE ST. LOUIS SECTION 2021 ANNUAL AWARDS DINNER

Program to include:

**Presentation of St. Louis Section Awards  
Introduction of New Officers**

The evening of Friday,  
**OCTOBER 15, 2021**

at

**The Engineering Center  
4359 Lindell Blvd, St. Louis, MO 63108**

**Dinner included  
\$40 per person**



**Register here by noon Friday, October 8:**

<https://events.r20.constantcontact.com/register/eventReg?oeidk=a07eihua4j0015d7e96&oseq=&c=&ch=>

*Please be aware of current CDC and St. Louis City COVID-19 guidelines for congregating in public spaces. We encourage proper applicable social distancing protocols during our event.*

**We hope to see you there!**

Brandi Jones, Annual Dinner Chair  
[bnjones.asce@gmail.com](mailto:bnjones.asce@gmail.com)

## Officers & Directors 2021 - 2022

### President

John Weiland  
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### President-Elect

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### Treasurer

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### Director of Technical Development

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### Director of Administration

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### Past President

Jordan Pettibone  
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## President's Message



Hi, everyone! I'm excited to start my one-year term as President of the ASCE St. Louis Section and to be serving with my fellow Section Officers, Directors, Committee and Institute Chairs, and Section Members who make up such a strong and dedicated group of civil engineering professionals. The strength of our Section is due in huge part to our Past Presidents, who have built the foundation (yes, I couldn't resist) for success that we have enjoyed for many years. In particular, I would like to recognize the service over the last year of our President Jordan Pettibone. Jordan has done a phenomenal job of

leading our organization through the uncertainties of the COVID pandemic over the last year. His dedication during his presidency and for the many years of volunteering with the Board of Directors and Section committees is sincerely appreciated.

While the pandemic has presented many challenges, in particular with limitations on in-person gatherings, as a Section we have adapted quite well and are very active in several areas. As announced in our September newsletter, we are once again hosting our Annual Awards Dinner on Friday October 15<sup>th</sup> at the Engineering Center at 4359 Lindell Blvd. at 6:00 PM. We will be offering a complimentary livestream for those who would like to view the event remotely. This marks our first in-person event in a year and a half, which is very exciting, however we will of course be following City of St. Louis and CDC recommendations and encouraging proper practices of wearing masks and social distancing. Over the last year, our monthly luncheon meetings have transitioned to virtual meetings with lunchtime technical and professional development presentations on a variety of topics. Our attendance at these events has actually gone up from pre-pandemic in-person events. We certainly recognize the value in providing a virtual platform for participation in our monthly meetings, and we plan to continue to offer this opportunity, even after luncheons return to in person, which we are still evaluating.

Please note that as announced in our September newsletter, our Section's Board of Directors is proposing several revisions to the Sections Constitution and By-Laws. These proposed changes will better align with ASCE's (Society level) recently updated Constitution and By-Laws. After this 30-day notice, the Board of Directors will vote on these changes, and if two thirds of the Board accept the changes, the Constitutional revisions will require a two thirds majority approval by Section membership (of those responding). More information will follow soon. Many thanks to our Vice President (now President-Elect) Alison Graves for leading this effort.

Once again, I'm pleased to have the opportunity to serve our membership over the next year as the Section President. I look forward to collaborating with you and helping to facilitate the many opportunities to promote civil engineering, serve our communities, and reach out to students to provide mentorship.

-John

## Keep Your Membership Current

Are you up to date on your membership dues? 2020 and 2021 were certainly not normal years, but hopefully you were able to take advantage of the wide variety of quality virtual events we held throughout the year. We had great attendance at our luncheons and the conferences our institutes held.

ASCE on the local and national level are still focused on helping you get the most of your membership, with several great benefits, such as:

- World class continuing education
  - 10 free archived webinars annually, you can earn PDHs for the webinars you successfully complete.
  - eLearning is also free which focusses more on soft skills.
- Free compensation and benefits information with ASCE's Salary Survey
- Technical and Professional Information including *AccessEngineering*, a robust searchable repository of civil engineering information
- Opportunities for local networking and PDH events
- Continued championing of regional and national infrastructure report cards

Please update your ASCE membership status. If you don't know your current status, you can log in to [asce.org](http://asce.org) or contact the St. Louis Section Membership Chairperson, Lyle Simonton at [lsimonton@subsurfaceconstructors.com](mailto:lsimonton@subsurfaceconstructors.com).

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## 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.

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## Impact of Coronavirus on Scheduled ASCE Programs- Updated August 2021

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

“Again, recognizing our professional and ethical responsibility to protect the health and safety of our members and the public at large, ASCE does not believe the current circumstances allow for a relaxation of our existing guidance. Accordingly, all ASCE entities are encouraged to pursue alternate options, such as the use of virtual platforms, for all meetings and events for the remainder of the calendar year (until Monday, January 3, 2022).”

“As noted in our previous guidance, decisions to conduct in-person events should be made only after a thorough consideration of how critical in-person involvement is to attain the desired objectives, and the ability to observe all recommended safety protocols and procedures. This of course includes strict compliance with all applicable state and local requirements for gatherings and events as well as current guidelines issued by the Centers for Disease Control.”

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

The St. Louis Section is following applicable state and local guidelines and CDC recommendations, and is allowing for remote participation via livestreaming.

## ASCE/T&DI October 2021 Luncheon and Webinar

You're invited to the ASCE monthly luncheon on **Thursday, October 28, 2021**. The monthly luncheon has returned to an in-person format, which will also be available virtually. \$25 In-Person Attendance w/ Lunch, \$5 Virtual (Member), \$10 Virtual (Non-Member).

[Please click here to see more details and to sign up!!!](#)

**Abstract:** The presentation will go through a brief history of the railroad industry in St. Louis and will then focus on the Merchants Bridge original construction and current construction.

**About the Presenter:** Eric P. Fields, P.E., is the Chief Engineer for the Terminal Railroad Association of St. Louis (TRRA). TRRA interchanges rail traffic in the St. Louis area and operates two major railroad Mississippi River bridges, the Merchants Bridge and the MacArthur Bridge. Eric is a professional engineer with experience in bridge management systems and project management for large construction projects. At TRRA, Eric is responsible for implementing the infrastructure management and regulatory compliance of the TRRA. Eric oversees the Track, Signal, and Bridge/Building departments, applies for and manages federal and state grants, performs strategic planning, capital budgeting, and regulatory compliance. Eric oversees major capital improvements, including the rehabilitation of the Merchants and MacArthur Bridges over the Mississippi River and implementation of Positive Train Control.

## ASCE Legislative Efforts in Media (Local and Nationally)

Past-President Jordan Pettibone was recently interviewed on WGN during a final push for the Infrastructure Investment and Jobs Act (IIJA) bill before passage in Congress in September.

[https://www.youtube.com/watch?v=rC1W\\_uRXX8&ab\\_channel=WGNNews](https://www.youtube.com/watch?v=rC1W_uRXX8&ab_channel=WGNNews)

This is all because of the extensive effort from ASCE Government Relations. If you haven't already signed up for the Key Contact "Click & Connect" program, consider it. This program drafts pointed legislative action letters to elected members of the General Assembly and Congress. Our elected officials are not experts like we are. When bills approach the chamber for a vote, they will survey their staff if any letters of support or opposition have been made from their districts. If we don't speak up, these issues may not pass.

In the past year, Missouri has initiated a new gas tax, and we are about to embark on a wonderful journey of a once in a generation infrastructure bill. Naturally, we (ASCE and the St. Louis Section) had a piece ready to submit for support of the gas tax.

[https://www.stltoday.com/opinion/mailbag/letter-raising-gas-tax-would-help-missouri-compete-nationally/article\\_89296f74-0270-5ca8-9751-53f6db9a4065.html](https://www.stltoday.com/opinion/mailbag/letter-raising-gas-tax-would-help-missouri-compete-nationally/article_89296f74-0270-5ca8-9751-53f6db9a4065.html)

So sign up to be a key contact. It's less painful than a trip through Laclede's Landing on low profile tires.

### Letter: Raising gas tax would help Missouri compete nationally

May 13, 2021

Regarding "Editorial: A modest gas-tax hike would rescue Missouri's **dangerously neglected roads**" (April 28): I commend the Editorial Board for perfectly illustrating the importance of the Missouri House passing legislation to improve the conditions of our state's bridges and roads. Senate Bill 262 would increase Missouri's gas tax by 12.5 cents over the next five years, bringing the rate to 29.5 cents per gallon. As president of the American Society of Civil Engineers' St. Louis Section, and one who closely observes the status of our infrastructure, I cannot stress enough the importance of the Missouri Legislature passing this bill.



## Notice of Amendments to St. Louis Section Constitution and Bylaws

Hello to our Section membership! The St. Louis Section Board of Directors is proposing several revisions to the St. Louis Section Constitution and Bylaws. In addition to providing notice, we want to explain some of the background on the proposed changes.

**Why, you ask?** ASCE Society recently overhauled their Constitution and Bylaws, and they are requesting Sections throughout the nation align with their model documents.

**Ok, so what did we do?** Initially, we asked for an amendment to clarify the process for removing a Board member since we did not have one. It was sent to ASCE for approval, and they responded with a completely marked up document with requested changes from both General Counsel and Managing Director of Executive and Board Operations. We formed an ad hoc committee of 6 Board members to comb through the markups one by one and respond to Society. After some back and forth, our committee and Society has agreed on a final document.

**What are the changes?** Most of the changes entail moving sections from the Constitution to the Bylaws or simply revising the wording, but it doesn't change the intent of the original documents. There are some material changes, including (but not limited to) clarifying our election procedures and changing the requirements for proposing amendments. In accordance with our current/proposed Constitution and Bylaws, we are providing **written notice** of the proposed changes to you, our membership. Due to the extensive nature of the revisions, we are providing a summary of changes, in addition to .pdf's of the tracked changes. We want to be as transparent as possible. So, please take some time to review the proposed amendments.

See *Summary of Proposed Constitution & Bylaws Revisions* below.

[Constitution Markup](#)   [Bylaws Markup](#)

**What are the next steps?** Thirty days after providing this written notice to our membership, the Board of Directors will vote on the proposed amendments. If they pass the Board with a 2/3 majority, the Constitution amendments will be sent out to be voted on by the membership, where they must receive a yes vote of at least a 2/3 of the recorded votes to be adopted. The Bylaws amendments do not require a vote of the membership and can be adopted by a Board vote. We will send out more information on the voting procedures next month to provide each member the opportunity to weigh in.

Please know the Section Board has spent a lot of time evaluating and discussing the proposed amendments and do not take this lightly. We are complying with ASCE's request to align our Constitution and Bylaws with theirs, and the process has been long. It is our intent to maintain a robust Section for years to come, so we can continue providing benefits and opportunities to our membership long after we've completed our service on the Board.

Sincerely,

Alison Graves, PE  
St. Louis Section Vice President

## Summary of Proposed Constitution and Bylaws Revisions

### *Proposed Constitution Revisions*

The Board is proposing several revisions to the St. Louis Section Constitution. The revisions were requested by ASCE Society with the intent to align our documents with the Society's model Constitution and Bylaws.

Sections moved to the Bylaws include:

- 2.1 Grades of Membership
- 4.0 Annual Dues – process for establishing annual dues
- 4.2.1 Delinquency
- 4.1.3 Notice of Non-Payment
- 4.2 Notice of Dues Abatement



- 7.0 Election Procedures – officer terms
- 8.0.3 Meeting Notice (Membership Meetings)
- 8.1.2 Meeting Notice (Board of Directors Meetings)
- 9.0.1 Governing Documents (Subsidiary Organizations)
- 9.1 Committees

Sections with revised wording to match the model Constitution (no change to the intent) include:

- 2.1 Assigned Members - ADDED
- 2.2.1 Rights of Subscribing Members - REVISED
- 4.0 Annual Dues – REVISED
- 11.0.2 Society Approval (Amendment) – REVISED

Sections with material changes, where intent is changed:

- NEW - 4.1 Exemption from Dues. Membership grades and classifications exempt from Society membership dues shall also be exempt from Section dues.
  - Section added by Society to match model Constitution.
- REVISED - 8.0.1 Annual Meeting. The Section shall hold at least one (1) business meeting annually, termed the Annual Meeting, on a date to be set by the Board.
  - PREVIOUS – 8.0.1 Annual Meeting. The Annual Meeting of the Section shall be held in September of each year.
  - Proposing removing the specific date of the Annual Meeting (aka Annual Dinner) to allow flexibility.
- REVISED – Article 11. Amendments, 11.0.1.2 Written Petition. A Written Petition submitted to the Secretary containing the text of the amendment, signed by not less than ten (10) percent of the Subscribing Members of the Section.
  - PREVIOUS - ...”signed by not less than ten (10) Subscribing Members of the Section.” ○ ASCE recommended this change for a large section like ours.

### *Proposed Bylaws Revisions*

The Board is proposing several revisions to the St. Louis Section Bylaws. The revisions were requested by ASCE Society with the intent to align our documents with the Society’s model Constitution and Bylaws.

Sections with revised wording to match the model Constitution (no change to the intent) include:

- 2.0 Grades of Membership
- 6.1 Officers – officers section reorganized
  - 6.1.1 President □ 6.1.2 President Elect.
  - 6.1.3 Vice-President.
  - 6.1.4 Secretary
- 6.2 Past President
- 7.0 Elections – split long paragraph into smaller clauses
- 8.0.1 Annual Membership Meeting □ 8.0.2 Frequency of Other Meetings
- 9.4 Task Committees

Sections with material changes:

- REVISED – 4.0 Annual Dues ○ Delete from Bylaws and add to St. Louis Section Handbook: “The Annual Dues for members of the Section shall not exceed thirty dollars (\$30.00) and the rate shall be fixed by a majority vote of those Officers and Directors present at the Annual Meeting. In the event no action on dues is taken at the Annual Meeting, they shall remain the same as for the preceding year. Annual dues shall be payable in U.S. currency on

October 1 of each year and shall become delinquent on December 31 of each year.” ○ Proposed text reads: “4.0 Annual Dues. The Annual Dues for members of the Section shall be established by two-thirds (2/3) vote of the Board of Directors (hereinafter “the Board”), payable in U.S. currency in advance of January 1<sup>st</sup>.

- REMOVED – 4.0.1 Notice of Dues ○ Delete Section from Bylaws and post our dues rate on Section website: “4.0.1 Notice of Dues. As soon after the Annual Meeting as is practical, the Secretary shall notify each Assigned Member, at his/her last known point of contact, of the Section dues for the ensuing year. With the approval of the Board of Directors, this responsibility may be met by such notification being made by the dues notice from headquarters of the American Society of Civil Engineers.”
- ADDED – 5.2 Fiscal Year ○ Add Section to the Bylaws: “5.2 Fiscal Year. The fiscal year of the Section shall be from October 1 to September 30.”
- REVISED – 6.1.4 Secretary ○ Remove “submit the Annual Report of the Section” from duties (as they do not actually do this) and move to the President’s responsibilities.
- ADDED – 6.4 Removal (Officers and Directors)
  - Add Section to clarify the process: “Removal. Any Board member who misses more than two (2) regular Board meetings, or who is otherwise deemed unfit or unable to fulfill the obligations of their role, may be removed by a vote of two-thirds (2/3) of all Board members, and the vacancy so created shall be filled for the unexpired term in accordance with these Bylaws.”
- REVISED – 6.6 Vacancies (Officers and Directors) ○ Remove “A vacancy in the office of President shall be filled by the President Elect. A vacancy in the office of President-Elect shall be filled by the Vice-President. Vacancies in other offices shall be filled for the unexpired term by the Board of Directors, subject to the approval of a majority of the Members of the Section present at its next regular meeting.”
  - Society recommends giving the Board discretion to pick the person to fill the vacancy in the event that the next in line is unwilling to skip their term. In the interest of filling vacancies quickly, the Society recommends giving the Board sole discretion to choose.
- REVISED – Article 7. Elections ○ Revised process to clarify dates and procedures in the event of a contested election.
  - Previous election procedures allowed Petition Nominees to be submitted after Official Nominees were announced. Revised procedures have Petition Nominees and Official Nominees submitted to the President on the same date.
- REVISED – 8.1.2 Notice of Meetings (Membership Meetings) ○ Remove Section “In the event that any meeting is cancelled, notice thereof shall be distributed to each Assigned Member at least five days prior to the scheduled date of the meeting.”
  - While it’s good practice to give advance notice of cancellation, not necessary to include in bylaws.
- REVISED – 8.1.1 Meeting Notice (Board Meetings) ○ Revise: “Notice of call for a meeting shall be sent to the members of the Board not less than 2 days in advance of the meeting date.”
  - Previous: “not less than twenty (20) days in advance of the meeting date” ○ Regular Board meetings are held on the same day each month. Special Board meetings can be called at any time in between regular meetings – 20 days is excessive.
- ADDED – 8.3 Meeting Participation by Alternative Means ○ Add Section: “Meeting Participation by Alternative Means. Any member of the Board or any Board committee may participate in a meeting of the Board or any Board committee by means of any communications system that allows all persons participation in the meeting to hear each other at the same time. Such participation shall be considered presence in person at the meeting.”
  - The board was already doing this in practice, especially due to COVID-19.
- ADDED – 8.4 Action Without a Meeting ○ Add Section: “Action Without a Meeting. Any action required or permitted to be taken by the Board or any Board committee may be taken without a meeting if all members of the Board or Board committee unanimously approve such action in writing.”

- The board was already doing this in practice.
- REVISED – 9.3.1 Nominating Committee
  - Revised number of members to three (3), from five (5)
  - Revised section to match recent Board practice: “Other members shall be recommended by the Past President and approved by the President. The terms of the nominating committee members shall end at the conclusion of the term of the President.” ○ Previous: “Other members shall be appointed by the Section President at the beginning of the Section President’s term and shall serve a one (1) year term.”
- REMOVED – 9.6 Liaison with Region 7 Board of Governors ○ Remove this section and define who the representative to Region 7 is in the St. Louis Section Handbook. “Liaison with Region 7 Board of Governors. A Past-President as identified by the Board of Directors shall represent the Section at the Annual Meeting of the Board of Governors of Region 7. In the event this Past President is unable to attend a Council meeting or is no longer eligible to serve, the President shall appoint a substitute.”
- REMOVED – 9.9 Reports to Board of Directors ○ Remove this section as it’s unnecessary to spell out in the Bylaws. “Reports to Board of Directors. The Chairperson of all committees shall meet with the President and Board of Directors at the call of the President to report on committee activities and advise on matters concerning the management of the Section.”
- REVISED – Article 11. Amendments, 11.0.1 Proposal. An amendment to these Bylaws may be proposed by any member of the Board, or by a written petition submitted to the Secretary containing the text of the amendment, signed by not less than ten (10) percent of the Subscribing Members of the Section.
  - PREVIOUS - ...”signed by not less than ten (10) Subscribing Members of the Section.” ○ ASCE recommended this change for a large section like ours



## Shamsher Prakash Geotechnical Scholarship

Reminder - Shamsher Prakash Geotechnical Scholarship applications are due **October 15, 2021**.

Details and application for the Shamsher Prakash Geotechnical Scholarship are available on the Geo-Institute page ([https://sections.asce.org/st-louis/sites/sections.asce.org/st-louis/files/Prakash%20Award\\_STL%20Section.pdf](https://sections.asce.org/st-louis/sites/sections.asce.org/st-louis/files/Prakash%20Award_STL%20Section.pdf))

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## Younger Member Group Update

*Thank you to all who attended our Summer BBQ! We had a great time and are looking forward to an even better year.*

**October Meeting** — Join us for our October meeting in Tower Grove Park!

Wednesday, October 13, 2021

5:30-6:30 PM

Tower Grove Park

Lily Pond Shelter

Snacks, beverages, and lawn games will be provided

**YEC/ASCE Kickball Tournament** — The ASCE YMG is partnering with the Young

Engineers' Club (YEC) for this year's Kickball Tournament to be held on October 16, 2021. We're looking for day-of volunteers to help this event go smoothly. If you're interested in volunteering, please email [ascestlymg@gmail.com](mailto:ascestlymg@gmail.com).

*See the following page to get our full list of meetings this year!*

Contact Michelle Bresnahan, YMG Chair, at [MBresnahan@lochgroup.com](mailto: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.

# YMG 2021 Calendar

Join us for a monthly happy hour! Rather than the typical bar, we'll be taking a tour around different parks this year. The exact location will be sent the month before.  
In the event of inclement weather, the happy hour will be canceled.

\*Subject to change throughout the year

<b>September YMG Meeting</b>	<b>October YMG Meeting</b>
Wednesday, September 15, 2021	<b>Wednesday, October 13, 2021</b>
Summer BBQ in Lafayette Sq	<b>Happy Hour in Tower Grove Park</b>
Meet at The Park House	<b>Lily Pond Shelter</b>
5:30-7:30pm	<b>5:30-6:30pm</b>
<a href="http://lafayettepark.org/walking-tour-park-house/">http://lafayettepark.org/walking-tour-park-house/</a>	<a href="https://www.towergrovepark.org/lily-pond-shelter">https://www.towergrovepark.org/lily-pond-shelter</a>
<b>November YMG Meeting</b>	<b>December YMG Meeting</b>
Wednesday, November 17, 2021	Wednesday, December 15, 2021
Happy Hour in Francis Park	Winter Social
Exact Location TBD	Location TBD
5:30-6:30pm	5:30-6:30pm
<a href="https://www.stlouis-mo.gov/government/departments/parks/parks/browse-parks/view-park.cfm?parkID=3&amp;parkName=Francis%20Park">https://www.stlouis-mo.gov/government/departments/parks/parks/browse-parks/view-park.cfm?parkID=3&amp;parkName=Francis%20Park</a>	



# 6th ANNUAL KICKBALL TOURNAMENT



Saturday, October 16, 2021  
Tower Grove Park



SUPPORT THE LOCAL CHAPTERS OF THE ASCE YMG AND YEC WHILE NETWORKING WITH OTHER LOCAL ENGINEERS

REGISTRATION OPEN FOR TEAMS AND INDIVIDUALS  
\$30 PER PERSON  
SNACKS AND BEER INCLUDED IN REGISTRATION

**REGISTER HERE**  
REGISTRATION CLOSES 10/11/2021

FOR QUESTIONS EMAIL MICHELLE BRESNAHAN OR JORDAN ATWOOD  
•MBRESNAHAN@LOCHGROUP.COM •JATWOOD@CIVILDESIGNINC.COM

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# EWRI St. Louis News

## EWRI ST. LOUIS MONTHLY SPEAKER SERIES EVENT

The St. Louis Section of EWRI is pleased to announce our monthly webinar **on Thursday, October 21, 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, October 18, 2021.** Please register online at the following link:

[EWRI October 2021 Speaker Series Presentation](#)

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

### PLACEMAKING INFRASTRUCTURE: MUNDELEIN'S DOWNTOWN STORMWATER STORY

In 2017, the Village of Mundelein, IL experienced significant urban flooding in residential and commercial neighborhoods of its downtown area. The Village responded to this crisis by preparing a watershed study and a flood mitigation plan.

The Village was also in the midst of redevelopment planning of its downtown area, including relocation of its public works facility just north of the Seavey Drainage Ditch. The Village decided to purchase an old US Music Factory building as part of their planning efforts. The factory was vacant and located adjacent to the Seavey Drainage Ditch, entirely within the floodplain and floodway.

The redevelopment efforts and Village's purchase of the US Music Factory site created an opportunity for construction of a regional detention facility that would provide flood reduction benefits in the downtown area, as well as reduce flows and sediment transport downstream. Village staff also recognized an opportunity that through placemaking and good design, it could enhance the Village's downtown, create open space, and encourage economic development.

To accomplish these tasks, the Village would have to balance the goals of the project with competing priorities, needs of property owners, and fiscal constraints, as well as find benefits for developers to plan and implement appropriate solutions. This presentation will provide a multidisciplinary overview of this exciting project.

### SPEAKER

#### **Charles Pugh, PE, CFM**

Charles is a water resources engineer with HR Green, Inc. He has seven years of experience working on 1D/2D hydrologic and hydraulic models, stormwater master plans, bridge studies, CLOMR/LOMRs, flood control projects, pump stations, water/wastewater treatment, and more. He is proficient with a variety of H&H software including HEC-RAS, HEC-HMS, and XPSWMM. Charles received his B.S. in Civil and Environmental Engineering from the University of Illinois. Charles is a licensed Professional Engineer in Missouri and Illinois, a Certified Floodplain Manager, and a CoCoRaHS volunteer.

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

Please contact **Rohan Benjankar, PhD** ([rbenjan@siue.edu](mailto:rbenjan@siue.edu)) with any questions, if you are interested in presenting, or have an idea for a topic.

## Structural and Geo-Confluence Registration Open



**GEO-  
INSTITUTE**  
St. Louis Chapter



**STRUCTURAL  
ENGINEERING  
INSTITUTE**  
St. Louis Chapter

# Structural and Geo-Confluence

Thursday, November 4, 2021

St. Charles Convention Center — St. Charles, Missouri

Registration is open for the sixth annual Structural and Geo-Confluence, hosted by the St. Louis Chapters of SEI and GI. This one-day, in-person conference is open to all, and will be held from 8 a.m. to 5 p.m. Registration opens at 7:15 a.m., with a continental breakfast and lunch provided.

### Agenda includes:

- Geo-Institute 2021 Cross-USA Lecture – Liz Smith, Terracon
- Collaborative Reporting for Safer Structures; Case Studies and Lessons Learned – Glen Bell, CROSS-US Chair
- Racine Dam; Complete Structural and Geotechnical Replacement – Bill Walton, GEI
- St. Louis Aquarium – Andrew Schumacher, PGAV Destinations
- Deep Foundations Institute Cross USA Lecture – Tom Richards, Nicholson Construction
- Instrumented Pilot Study and Full-Scale Preloading of Soft Clay – Zachary Fallert, Lucas Carr, Juan Pestana, and Chris Livingston, Geosyntec Consultants
- Design and Construction Repairs for Failed Retaining Walls – John Puls, GSI
- Final agenda to be announced soon

Registration Class	Early Rate by Thursday, October 14	Regular Rate October 15 to October 28	Late Rate After October 28 and walk-ins
Professional, ASCE Member	\$195	\$250	\$295
Professional, non-ASCE Member	\$250	\$295	\$295
Full-time Students	\$75	\$100	\$110
Local, State, or Federal Government*	\$180*	\$200*	\$295
Exhibitor (includes 1 registration)	\$450	\$450	\$450

\*To register with Government Rates, please contact Stephanie Spann

Meal and break sponsorships are available, in addition to exhibitor opportunities. Please contact Lyle Simonton at [lsimonton@subsurfaceconstructors.com](mailto:lsimonton@subsurfaceconstructors.com) or 314-421-2460 x101 to discuss these options.

**Please register at <https://tinyurl.com/Confluence2021register> (case sensitive)**

Vegetarian and other meal options are available. Please contact Stephanie Spann with your request.

**Refunds must be requested before October 28, 2021. Any refund will be subject to a 15 percent cancellation fee.**

**Registration may be transferred to another person by advanced email notice to Stephanie Spann**

**([sspann@davidmason.com](mailto:sspann@davidmason.com)).**

**COVID-19 ALERT:** St. Charles Convention Center (SCCC) has taken enhanced health and safety measures to protect venue guests. However, there is an inherent risk of exposure to COVID-19 in any public place where people are present. By entering the venue, you voluntarily assume all risks related to exposure to COVID-19. ASCE and SCCC disclaim any and all liability related thereto. The COVID-19 protection measures at SCCC are detailed [here](#).





**VIRTUAL FALL 2021 FE REVIEW SESSIONS AT SIUE\***

<u>Date</u>	<u>Subject</u>	<u>Instructor</u>	<u>Time</u>	<u>Place</u>
Tues. 10/05/21	<b>Surveying/Construction</b>	Prof. Sherrill	4:30 – 5:50 PM	Recorded Video
Thurs. 10/07/21	<b>Statics/Math</b>	Dr. Chew	4:30 – 5:50 PM	Recorded Video
Thurs. 10/14/21	<b>Statics</b>	Dr. Fries	4:30 – 5:50 PM	Zoom
Tues. 10/19/21	<b>Dynamics</b>	Dr. Shavezipur	4:30 – 5:50 PM	Zoom
Thurs. 10/21/21	<b>Mechanics of Solids</b>	Dr. Panahshahi	4:30 – 5:50 PM	Zoom
Wed. 10/27/21	<b>Fluid Mechanics</b>	Dr. Denn	4:30 – 5:50 PM	Zoom
Thurs. 10/28/21	<b>Engineering Economics</b>	Dr. Eneyo	4:30 – 5:50 PM	Zoom
Tues. 11/02/21	<b>Geotechnical Engineering</b>	Dr. Ocouli	4:30 – 5:50 PM	Zoom
Thurs. 11/04/21	<b>Environmental Engineering</b>	Dr. Zhou	4:30 – 5:50 PM	Zoom
Tues. 11/09/21	<b>Transportation Engineering</b>	Dr. Qi	4:30 – 5:50 PM	Zoom
Thurs. 11/11/21	<b>Structural Design: Concrete</b>	Dr. Panahshahi	4:30 – 5:50 PM	Zoom
Tues. 11/16/21	<b>Engineering Materials</b>	Dr. Huang	4:30 – 5:50 PM	Zoom
Thurs. 11/18/21	<b>Hydraulic/Hydrologic Systems</b>	Dr. Benjankar	4:30 – 5:50 PM	Zoom

\* ALL REVIEW SESSIONS ARE TAUGHT BY SIUE FACULTY MEMBERS. THE SESSIONS ARE FREE FOR SIUE ENGINEERING STUDENTS WHERE EMAILS WITH THE ZOOM LINKS FOR THE SESSIONS WILL BE EMAILED TO THEM. NO REGISTRATION IS NEEDED. FOR NON-SIUE STUDENTS AND PRACTICING ENGINEERS, EACH SESSION WILL COST \$10 PAYABLE TO SIUE CHI EPSILON. TO REGISTER AND OBTAIN THE ZOOM MEETING INFORMATION FOR THE SESSIONS(S) YOU ARE INTERESTED IN ATTENDING PLEASE CONTACT MS. ASHLEY SPAIN, CHI EPSILON PRESIDENT AT [ASPAIN@SIUE.EDU](mailto:ASPAIN@SIUE.EDU), AT LEAST 24 HOURS IN ADVANCE. AN INVOICE WILL BE SENT TO YOU ONCE THE SESSIONS ARE COMPLETE. FOR MORE INFORMATION PLEASE CONTACT PROF. PANAHSHAHI AT [NPANAHS@SIUE.EDU](mailto:NPANAHS@SIUE.EDU)



As we slip into fall, we are glad to share an update from Rolla with exciting updates on our students, alumni and faculty. Most timely, I want to draw attention to our homecoming events and kicking off the 150<sup>th</sup> celebration. In celebration, alumni and friends are invited back to celebrate [homecoming](#) and the kick off of our 150<sup>th</sup> activities, including tours of the new expansion to Butler-Carlton Civil Engineering Hall or join for the [Stueck Distinguished Lecture](#) as well. We are excited to host **Dr. Don Wuebbles who shared the 2007 Nobel Peace Prize as the 2021 speaker. Join us at 1:30 p.m. Friday, Oct. 8, at Leach Theatre and available on webinar Zoom.** As part of our distinguished lecture series, our ASCE student chapter will also host **ASCE President Dr. Dennis Truax October 20<sup>th</sup>, 7:00 PM that will be broadcast as a webinar.**



Webinar of Lecture Series: <https://umsystem.zoom.us/j/92489242927#success>

The latest [USNews and World Rankings](#) offered some exciting news! Our Civil Engineering undergraduate program was ranked at #31 nationally, and #21 among public universities. Internationally there are 337 ABET accredited civil engineering undergraduate programs total. The ranking is the highest of any engineering program in Missouri. We are proud of the reputation and look to continue to build up our legacy going forward.



The new edition of the [Common Ground](#) is available and focuses on our amazing students is hitting the mail this week and highlights the remarkable accomplishments of students and alumni.

From placing 2<sup>nd</sup> internationally in the Department of Energy Solar Decathlon to a three-peat of Steel Bridge as midwest champions, our students and alumni have amazing accomplishment.

We are also expanding our programs, including a new Construction Engineering Minor in 2021 and online courses to join our existing distance education degree programs. We have three new graduate certificate programs that started this fall, include:

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

These offerings join our five existing certificates, and each can be used to pursue a MS degree in civil or environmental engineering, entirely online or in person. The S&T engineering online programs are ranked in the top 20 in [US News](#). Our full listing of opportunities is at: <https://distance.mst.edu/care/> or through the new Missouri Online portal for all online education opportunities: <https://online.missouri.edu/degrees-programs>. The future is still partly shrouded in questions and uncertainty, but we are resilient and fully back on campus in Rolla MO this fall, as well as projecting programs through our online programs. We are always looking to provide premier education for our beloved profession. Whatever the future holds, our students and alumni will be there to help shape the future of our profession and our world! For more information, contact us at anytime, [CArE@mst.edu](mailto:CArE@mst.edu).


# CIVIL ENGINEERING

## Live Streaming Graduate Programs

Contemporary Structural Engineering  
Geoenvironmental Engineering  
Geotechnical Earthquake Engineering

Infrastructure Renewal  
Project Engineering and  
Construction Management

Apply Today!



# Employment Opportunities



At DMA, we engineer the foundations of communities. Our business is to create and preserve the Nation's infrastructure. We design and assess highways and bridges, buildings, sewers and tunnels, and electric and gas networks used by millions of Americans every day. We work on iconic projects – international airports, national monuments, universities, hospitals and medical campuses, sports stadiums, and so much more.

Our family-first and hard-working culture stretches far beyond the name of Mason. We believe everyone works together, an "all oars in the water" approach to help everyone succeed. Our team members are like extended family and we collaborate to serve our customers with integrity.

**We are energized by the challenge and inspired by our people.**

## CURRENT OPENINGS (St. Louis Office)

Benefits package includes health, dental, life, long-term disability, and long-term care insurances, 401k, holidays, PTO and every other Friday OFF.

**STRUCTURAL PROJECT MANAGER** - Minimum 10 years of experience; Licensed PE or SE; Bentley RAM Modules, RISA 3-D and L-Pile. Knowledge with using AutoCAD and REVIT is a plus.

**STAFF STRUCTURAL ENGINEER** - Minimum 5-8 years of experience; RISA, RAM, L-Pile, AutoCad software is required. REVIT experience is a plus.

**CIVIL STAFF ENGINEER** - Minimum 2 years of experience; AutoCAD-Civil3D and exposure to engineering modeling software such as HEC-HMS, HEC-RAS, preferred; requires an Engineering Intern (EI) Certification with intentions of pursuing and obtaining a Professional Engineering (PE) License.

**CIVIL ENGINEERING CAD DESIGNER** - Minimum 5-8 years of experience; AutoCAD / with a focus on civil engineering design. Experience should include site layout, grading, drainage and utility design projects. Civil 3D experience preferred. A working knowledge of Microstation is a plus.

**DRAFTER/DESIGNER – ELECTRICAL UTILITY** - Minimum 5-10 years of experience; knowledge of Bluebeam and a proficiency for Bentley MicroStation, AutoCAD, and/or comparable applications; working knowledge in utility, transmission, and power distribution applications, associated with the design modification of schematic, wiring and interconnect diagrams.

For all career opportunities at DMA, and to apply, visit: [davidmason.com/careers](http://davidmason.com/careers)

 Health	 Dental	 Life	 Long-Term Disability	 Long-Term Care	 401(k) Option
 Great Culture + Team	 Professional Growth Opportunities	 Family Environment	 Every Other Friday Off	 Equal Opportunity Employer	

St. Louis | Chicago | Philadelphia

[davidmason.com](http://davidmason.com)

## Structural and Geotechnical Engineering Faculty Positions



The Department of Civil Engineering at Southern Illinois University Edwardsville is seeking to fill two tenure track positions in Civil Engineering at the Assistant Professor level to begin August 16<sup>th</sup>, 2022. One position is available in structural engineering and one position is available in geotechnical engineering. The successful candidates must have the ability to 1) teach undergraduate and graduate courses in civil engineering, 2) advise graduate students (MS and PhD), 3) establish and sustain an externally funded research program, and 4) participate in service activities.

The structural engineering candidate should have expertise in steel design. The successful candidate can teach courses in structural analysis/design, advanced steel design, structural dynamics, and finite element analysis. Preference will be given to candidates with expertise in structural design with multiple materials, multi-hazard resistant design, health monitoring, and laboratory instruction. Full information about this position is available at <https://www.siu.edu/employment/engineering/FY22-027.shtml>.

The targeted areas of interest for the geotechnical engineering position include, but are not limited to soil-structure interaction, in situ geotechnical testing, geo-hazard assessment and risk mitigation for resilient infrastructure, geo-construction, laboratory physical modeling of geotechnical systems, and earthquake engineering. Preference will be given to candidates with expertise in teaching geotechnical lecture and lab courses and have the ability to develop new courses to supplement our curriculum. Full information about this position is available at <https://www.siu.edu/employment/engineering/FY22-033.shtml>

A background allowing candidates to work with existing civil engineering faculty, including across sub-disciplines is an asset. Candidates should have an educational background that would permit licensure as a professional engineer or structural engineer, must hold at least one degree in civil engineering, possess an earned doctoral degree or ABD (all but dissertation) in civil engineering or a closely related field. Candidates for this position will be expected to be student-centered and should embrace the Teacher-Scholar model, demonstrate a commitment to promoting experiential learning, and advance civil engineering through research. Information about the department can be found at [www.siu.edu/engineering/civil-engineering/](http://www.siu.edu/engineering/civil-engineering/).

Closing date for applications 11/30/2021.

Diversity, equity, and inclusion are core values of SIUE and reflected in the institutional commitment to Inclusive Excellence here <https://www.siu.edu/provost/inclusive-excellence/>. The School of Engineering is committed to attracting, supporting, and retaining employees with varying identities and backgrounds, particularly candidates from underrepresented groups in STEM such as women faculty and faculty of color. SIUE faculty are encouraged to contribute to inclusive excellence in both the academic community and region through research, teaching, and service.



## **Illinois Civil Engineering Leader**

Champaign, IL; Springfield, IL; Belleville, IL

Bacon Farmer Workman (BFW) seeks an engineering leader who can oversee the civil engineering discipline for the company in the state of Illinois. This is an opportunity for an up-and-coming professional engineer with a background in large-scale commercial, municipal, or institutional land development and/or water-wastewater to position themselves as the statewide civil engineering leader for growth in a terrific, fast-growing company. The position will involve business development and strategy to position the civil engineering division of the company for continued strategic success in Illinois. The engineer will also be responsible for project management, quality control, mentoring, and high-level supervision of design and technical staff across several offices. This division of the company focuses on clients that require the highest level of professionalism and quality, and offers the opportunity for the right individual to build significant, large-scale projects that leave a standing legacy for the communities they serve. The right individual will have experience serving as a project manager for complex projects as well as some leadership or management experience and the desire to build upon strong relationships in the Illinois region.

BFW believes in empowering their employees to truly shine. The individual will be given the flexibility and autonomy to grow and thrive in this prestigious position. BFW offers a supportive, fun, and caring work environment with projects that are generally regional and don't require long-distance travel. This is a great opportunity for someone looking to be a leading local civil discipline expert and remain engaged in their family and community!

### About the Company:

*Founded in 1996, Bacon Farmer Workman Engineering & Testing, Inc (BFW) is a firm of 120+ team members providing professional engineering services. The Bacon Farmer Workman & Marcum Engineering family of companies are committed to providing engineering excellence through planning, design, & construction observation phase services for Civil, Structural, Transportation, Geotechnical, Mechanical, and Electrical projects. BFW is a regional firm with staff located throughout Kentucky, Illinois, Missouri, and Tennessee. BFW's commitment to the communities and environments they work in is the hallmark of their success. How they work starts with who they are. BFW's culture is one that believes in empowering each and every team member and allows each team member to be engaged and enabled for a purpose. This allows the team to respond, participate, initiate, and analyze to provide exceptional outcomes.*

### Requirements:

- BS in civil engineering or related engineering discipline
- 10+ years of experience
- Licensed Professional Engineer
- Prior experience managing civil engineering design projects. Individual can have a background/familiarity in any of the following areas: land development, site development, water resources, water/wastewater, or stormwater

To apply email [Gail@rcassoc.com](mailto:Gail@rcassoc.com)





## Lochmueller Group has great opportunities for Structural Design or Bridge Engineers to join our team!

This is an excellent opportunity to join a growing firm and immediately put your design skills to work on a variety of projects, including highways and bridges for various local public agencies and state DOT's, miscellaneous structural design elements to support other business units, and design-build pursuits.

Candidates must have a Bachelor's degree in Civil or Structural Engineering and be registered as a Professional Engineer; Structural Engineer registration is a plus. **Project Engineer candidates will also have a minimum of 5 years of experience in bridge and structural design.** The position responsibilities include:

- 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. Candidates must be able to work independently or as part of a larger design team and interact well with the manager and other members on various 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, and drawing packages (Microstation or AutoCAD) to design and analyze structural components.
- Visit job sites as needed to support projects.
- Perform other duties as assigned.

Experience with Missouri and Illinois DOT projects and/or local agency projects is preferred, as is an understanding of the policies and procedures of these agencies. Proficiency with Microsoft Office products including Excel, Word, and PowerPoint required. Previous experience utilizing seismic analysis and design is also preferred.

**Project Manager or Team Leader candidates should have a minimum of 10 years of experience including** five or more years managing project budgets and financial performance; work assignments for the team; project schedules; and client communications and management. In addition, experience with project pursuits and procurement is strongly desired, including team building; cost estimating; scope development; and proposal writing or presentation.

We also accommodate work-from-home hybrids (depending on experience and assignment specifics), though periodic engagement with various team members is required.

**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, Student Loan Repayment benefit, and several others.

**CARDIA:** Means "from the heart" and it is what our values and culture represent here at Lochmueller Group. Creativity; Accountability; Respect; Dedication; Integrity; Achievement – that is what sets us apart from the others!

Check us out at [www.lochgroup.com](http://www.lochgroup.com) or submit your resume to: [jkelly@lochgroup.com](mailto:jkelly@lochgroup.com).

# Special Inspections and Design

## JOB OPENING

**POSITION:** Structural Engineer

### DESCRIPTION

We are seeking an experienced Structural Engineer (5+ years experience) 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 and repair drawings, demolition plans, 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.
- Working knowledge of structural engineering software (RISA is ideal).
- Working knowledge of IBC and other national standard codes.
- AutoCAD proficiency is a plus.
- Good written and oral communication skills.

### TO APPLY

Please send resume and any questions to Ashlee Peno at [ashleepeno@SIDengineers.com](mailto:ashleepeno@SIDengineers.com)

For more information about our company please visit [www.SIDengineers.com](http://www.SIDengineers.com)

# CIVIL DESIGN, INC.

## WHO WE ARE

At CDI, we strive to help our clients create quality infrastructure while also contributing positively to our communities. Our culture is centered around a fundamental commitment to **Building Stronger Communities**, meaning our team of passionate individuals is dedicated to revitalizing the spaces that contribute to our daily lives. Since its founding in 1996, CDI has grown to over 80 team members with 35 engineers and six services, including **Infrastructure + Analytics, Site, Structures, Survey, Transportation, and Water Resources**.

## JOIN OUR TEAM!

### Water Resources Leader

Effingham, IL | Louisville, KY | St. Louis, MO

### Experienced Structural Engineer

St. Louis, MO | Louisville, KY

### Site Project Engineer (Mid-Level)

Louisville, KY

### Programming Engineer

St. Louis, MO

### Professional Land Surveyor

Louisville, KY

### Senior Water Resources Project Engineer

St. Louis, MO

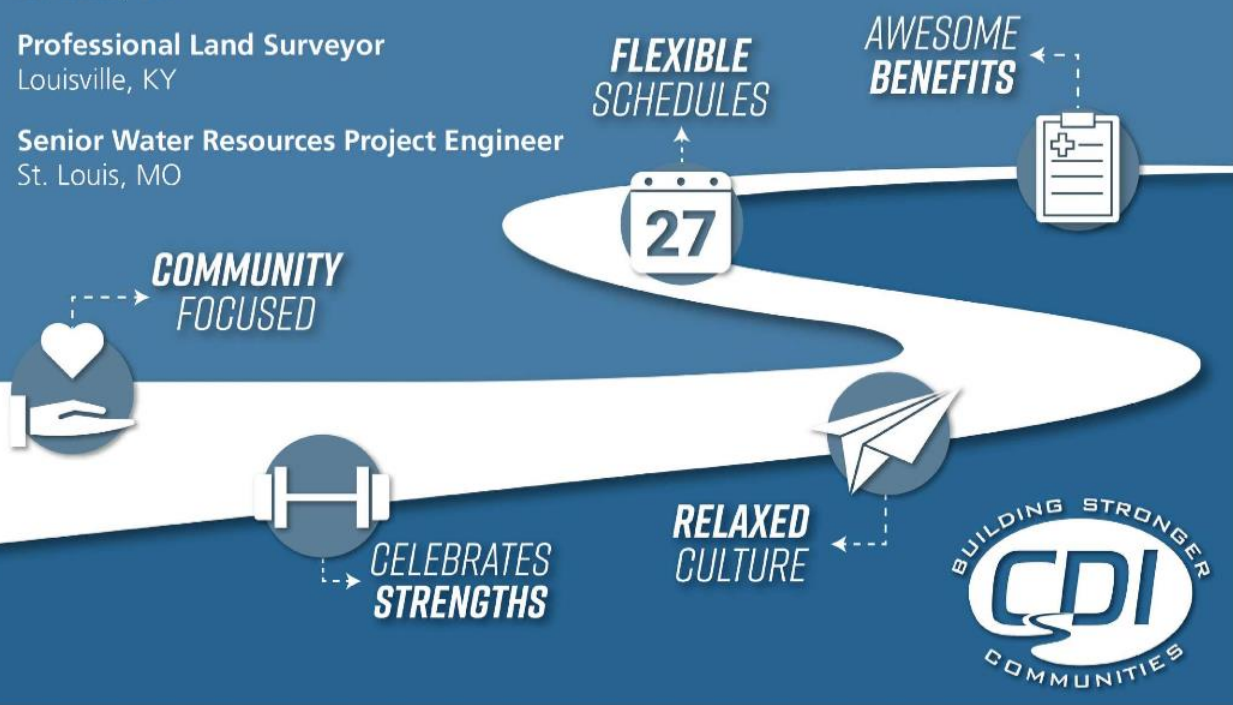
## OUR VALUES

PERSONAL OWNERSHIP

MUTUAL TRUST & RESPECT

CONTINUOUS LEARNING & GROWTH

RESPONSIVENESS



LEARN MORE OR APPLY AT [WWW.CIVILDESIGNING.COM](http://WWW.CIVILDESIGNING.COM)



## **Civil Engineer/E.IT or P.E – Competitive – Wentzville, Missouri**

### **The Role**

Are you an innovative civil engineer with project management experience? If so, Cochran Engineering, one of the largest engineering firms in St. Louis, are looking for a Civil Engineer/E.IT or P.E.

The successful candidate will perform as a project manager, supervising the execution of work and ensuring that the firm maintains its high quality standards.

The key responsibilities of a Civil Engineer/E.IT or P.E include, but are not limited to:

- Performing engineering design.
- Preparing technical reports.
- Building and maintaining positive external relationships with clients, and internal relationships with colleagues.
- Providing direction, coordination, quality assurance, and quality control to engineering colleagues.
- Leading by example, operating with integrity and sound business principals.

### **The Company**

Cochran Engineering is an established, multi-location civil engineering and land surveying firm currently ranked among largest engineering Firms in the St. Louis area by the St. Louis Business Journal.

With 60 years' experience, we are dedicated to building long-lasting client relationships and have an outstanding reputation for superior customer service.

### **The Benefits**

- Simple IRA with 4% Company Match.
- Company paid medical, dental, vision, life and long term disability Insurance.
- Flexible benefits plan.
- Paid vacation/sick time and holidays.
- Professional development training.
- Competitive salary, commensurate with experience.
- Relocation package may be available for this position.

### **The Person**

The essential skills and qualities of a Civil Engineer/E.IT or P.E:

- E.I.T. or P.E. in the State of Missouri.
- 3 to 5+ years' experience in Civil Design.
- Bachelor's Degree – Civil Engineering.
- Proficiency with AutoCAD and Civil 3D.
- Project management skills.
- Areas of expertise may include but are not limited to: roadway, site design, commercial design, water and sewer, and/or residential development.
- Experience with design of hydraulics, hydrology, grading and overall site development is desired.

If you are interest in joining this forward-thinking company, please submit your resume to [msample@cochraneng.com](mailto:msample@cochraneng.com).

**Job Title: Roadway Engineer**

**Location:** Chesterfield, MO

EDSI has an immediate opening for a full time Roadway Engineer with 4-10 years of experience. The ideal candidate will have a strong interest in detailed design work as well as the ability to interact with clients and contractors. Responsibilities include a broad range of planning and design tasks such as roadway design, roadway rehabilitation, ADA compliant designs, bike and pedestrian trail design, traffic signal design, geometric layout, drainage/hydraulics and quantity development. The position requires competent skills to complete feasibility reports and prepare conceptual, preliminary and construction plans and bid documents for a variety of public and private clients.

Requirements include a B.S. in Civil Engineering from an ABET-Accredited University, Professional Engineer License or plan to obtain a P.E. License, proficiency in AutoCAD Civil 3D and GeoPak, an understanding of construction and bid documents including project specifications and strong technical writing, analytical and communication skills.

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**Job Title: Hydraulic/Water Resources Engineer**

**Location:** Chesterfield, MO

EDSI has an immediate opening for a full time Hydraulic/ Water Resources/Civil Engineer with 4 or more years of experience to support our Structures/Water Resources and Transportation Groups. The ideal candidate for this position will be expected to perform analysis and design related to bridge replacement projects, flood protection, hydraulic studies, and drainage studies. Experience with all H&H aspects of bridge replacement design for small and medium creeks and waterways is required. Roadway drainage design experience; MSD, MoDOT and IDOT experience; and the ability to support structural and/or roadway design is preferred.

Requirements include a B.S. in Civil Engineering from an ABET-Accredited University, proficiency in HECRAS, stormwater drainage system analysis, AutoCAD Civil 3D and/or MicroStation. A Professional Engineer License in the State of Missouri required with a P.E. License in Illinois as well is preferred.

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**Job Title: Engineering CAD Technician**

**Location:** Chesterfield, MO

EDSI has an immediate opening for a full time Civil Engineering CAD Technician. The ideal candidate should have 3-5 years of experience in design drafting of transportation related projects. Responsibilities include assisting both project managers and engineers with the design and layout of engineering drawings, development of engineering details, preparation of conceptual layouts for highway, roadway and street projects including drainage design, intersection layouts and utility location.

Job Requirements:

- Proficient in AutoCAD, and/or MicroStation design and drafting software
- Work independently, plus the ability to coordinate effectively with multi-disciplined project teams
- Ability to read construction and engineering documents
- Possess workload management skills to meet deadlines
- Detail-oriented

Please send resume to: [Hiring@engdesignsource.com](mailto:Hiring@engdesignsource.com) <http://engdesignsource.net/>

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## **Company Overview**

Gonzalez Companies, LLC is a rapidly growing, fast-paced, professional services company specializing in civil engineering, construction management, and construction inspection. Gonzalez is a certified Minority Business Enterprise focused on providing professional services for power, water, sewer, stormwater, roadway, and site development projects. Our 20 plus years in business has been guided by providing our clients with the highest level of professional services. Our 100+ team members are committed to building stronger communities in the markets that we serve. We have offices in St. Louis, MO; Belleville, IL; O'Fallon, IL; Salem, IL; Chicago, IL; and Louisville, KY. Gonzalez has a strong family-oriented culture driven by the desire to achieve strong co-worker, client, and community relationships. Motivated by the principles of continuous learning and growth, our team members have a spirit of entrepreneurship, coupled with mutual trust and respect that results in a synergetic atmosphere providing employee, client, and company success.

## **Opportunities:**

### **Civil Engineering**

Materials Coordinator, Downers Grove IL  
Regional Manager, Downers Grove IL  
Resident Engineer, Downers Grove IL  
Civil Design Engineer, Louisville, KY  
Water/Wastewater Project Engineer, O'Fallon, IL  
Project Engineer, Ottawa IL  
Project Engineer, Downers Grove IL  
Structural Project Engineer, Salem IL

### **Construction Management**

Documentation Engineer, Downers Grove, IL  
NACE Inspector level II, St. Louis MO

For more information and to apply for an open position above, please go to:

<https://www.gonzalezcos.com/careers>

**\*\*For all recruiting or position inquiries, please contact [careers@gonzalezcos.com](mailto:careers@gonzalezcos.com)\*\***



## **JOB OPENINGS**

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

**CAAD Technician (Structural Bridge)**

Associate in Applied Science degree in Drafting Technology, St. Louis

**Project Manager (Water/Wastewater)**

7+ years' experience in drinking water, wastewater and/or storm water design

**Electrical Engineer**

5+ years' experience, knowledge of the National Electrical Code, St. Louis

**Project Manager (Structural Building)**

10+ years' experience, LPE, proficient in AutoCAD, Revit Structure & Ram Structural System

**Project Manager (Transportation)**

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

**Project Manager (Transportation)**

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

**Engineer (Transportation)**

Entry-level, EIT certificate preferred St. Louis

**GIS Analyst**

5+ years' experience, BS in Geography Computer Science or related field, St. Louis

**Project Engineer (Transportation)**

5+ years' experience, proficient in MicroStation and Geopak SS4, Chicago or St. Louis

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

# HYDROGRAPHIC SURVEYOR/HYDROGRAPHER



## **Prairie Engineers, P.C. is seeking an Experienced Hydrographic Surveyor / Hydrographer to join their team.**

Do you love spending time outdoors? Are you eager to travel and see the country? Do you want a job that keeps your body active while still challenging your mind? Prairie Engineers is a growing company, looking to add a **Hydrographic Surveyor** or **Hydrographer** to assist with the firm's surveying projects at locations nationwide. This position includes both field and office assignments and will require extensive travel to locations throughout the U.S. with occasional international travel possible. This isn't an easy position; we work long days in sometimes harsh conditions and remote locations. But if you are looking for a challenge, if you enjoy being a part of a capable and contributing team, and if you enjoy developing solutions to get the job done well, we may be the right fit for you! You must be able and willing to be a highly responsible, capable, and contributing member of our team, able to utilize technology and think on your feet. This position will be a full-time position with paid travel expenses and a per diem allowance for meals, generous benefits and a competitive salary based on qualifications. This position is available to be filled in our Hazelwood, Missouri or Vicksburg, Mississippi offices.

### **Essential Job Functions:**

- Ability to travel, often on short notice, and work safely in various locations and all types of weather conditions
- Safe operation of small motor vessels in a variety of inland lakes and river environments and occasionally in near-coastal waters
- Ability to lead and perform hydrographic surveys using HYPACK software and single-beam, multibeam, side-scan sonar, sub-bottom profiler, magnetometer, and other state-of-the-art sensors and methods along with GPS positioning, LiDAR, and various Inertial Motion Sensors.
- Perform and check office surveys including reduction of hydrographic surveys using HYPACK and other software, performing least squared and compass rule computations, and volume and area calculations

We are an equal opportunity employer that recognizes the value of diversity. All qualified individuals will receive consideration for employment without regard to race, color, religion, age, sex, national origin, disability status, genetics, protected veteran status, sexual orientation, gender identity or expression, or any other legally protected status.

### **Minimum Qualifications:**

- Experience:** 4+ years performing hydrographic surveys or 4 years as a surveyor with a strong desire to expand expertise as demonstrated by the willingness to take hydrographic survey coursework outside of working hours
- Travel:** Willingness to travel within the United States to meet project requirements
- Communication:** Good verbal and written skills
- Safety:** A valid driver's license and a clean driving record
- Teamwork:** Ability to work both independently and as part of a team
- Service oriented:** Maintain focus on project delivery and client service with attention to detail and meeting deadlines
- Ideals:** Professional, positive attitude with a strong work ethic

### **Preferred Qualifications:**

- Education:** Bachelor's Degree in Surveying, Civil Engineering, Hydrography, or a related science field
- Certification:** NSPS/THSOA Certification as a Hydrographer or Certified Survey Technician
- Licensure:** Professional Surveyor or Surveyor Intern
- More experience:** Field control, topographic, and boundary surveys and CADD/GIS experience

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/> Potential candidates for this position should **fill out an application** at [www.prairieengineers.com](http://www.prairieengineers.com) and contact Prairie Engineers via e-mail at [jobs@prairieengineers.com](mailto:jobs@prairieengineers.com).

## Submit items to the newsletter...

Please try to get all announcements for placement in the newsletter to the Newsletter Editor by the 20<sup>th</sup> 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](mailto: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](http://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](mailto: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.

**Please be sure to keep your PRIMARY contact information up-to-date by contacting ASCE at <http://www.asce.org>, or call 800-548-ASCE (2723).**



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