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ASCE January 2019 Luncheon - EWRI/SAME

Tuesday, January 8, 2019

J. David Rogers, PhD, PE, PG, F.ASCE - Missouri University of Science and Technology

Presentation Description: Construction of the ALCAN Highway - "One of the Top 10 Construction Achievements of the 20th Century". During the 1930's the idea was put forward to develop a road that would link the western United States with its Territory of Alaska. No appropriations were forthcoming until the Japanese attacked Pearl Harbor on December 7, 1941. With the sudden fear of the Japanese possibly invading Alaska, military leaders in Washington realized the strategic value of a supply road connecting the American garrisons in Alaska and the airfields planned for construction between Seattle and Fairbanks. The task of blazing a pioneer road fell upon the U.S. Army Corps of Engineers, whose charge was to construct the road "as soon as humanly possible." Civilian contractors working for the U.S. Public Roads Administration (PRA) would then upgrade this road into a permanent highway. The specifications required a linear clearing of no less than 32 feet, with maximum grades of 10%, with a minimum surfacing 12 feet wide with 3-ft wide shoulders, and drainage ditches at least two feet deep on both sides. Initial bridge loads were to be single lane with H15 minimum loading. A force of 10,670 Army Engineers was able to construct the 1,685-miles of highway through the Yukon Territory to Alaska in a record time of 8 months and 11 days. 41 American and 13 Canadian contractors assisted in the construction and improvement of the highway. November 20, 1942 marked the official opening of the Alcan Highway. It has been in continuous operation ever since.

About the presenter J. David Rogers, PhD, PE, PG, F.ASCE, Professor J. David Rogers has enjoyed a 42-year career as a Navy and Marine Corps officer, consulting geological engineer, and educator. He received his BS in geology from California State Polytechnic University (1976) and MSCE (1979) and Ph.D. (1982) degrees in civil engineering from the University of California, Berkeley. From 1982-2001 he served as CEO or general partner in three consulting engineering and construction management firms with offices in the San Francisco, Los Angeles, and Honolulu metro areas.

Register Now!

Time, Date, Location

11:30am to 1:00pm, January 8, 2019, at The Engineering Center, 4359 Lindell, St. Louis 63108. Registration starts at 11:30am and lunch is served at 11:45am. The program will begin promptly at 12:00pm. One (1) PDH available.

Cost

\$15/person, students and members in transition \$5 (checks payable to ASCE).

Registration

Please register and pay online using the link above for reservations by 5:00pm, Thursday, January 3, 2018. Please note that we will no longer be accepting event registration though the Engineering Center, and you must register online. If you wish to pay at the door, select the "pay by check" method of payment on the online registration page. ASCE is charged for all reserved lunches. If you've signed up and can't make it, please cancel by Friday before the meeting or we may have to charge you for the meal.

Upcoming Events

January

- 08 – ASCE Luncheon
- 10 – YMG meeting
- 11 – Geo-Institute meeting
- 17 – EWRI webinar
- 17 – MSPE Luncheon

Follow the Section and share with your network.



Officers & Directors 2018 - 2019

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President's Message



Happy New Year! I hope your holiday season provided some time away from the office to recharge with family and friends. The New Year is always an opportunity to take stock in what the prior year has brought us and make plans for the year to come. 2018 brought many successes for the St. Louis Section including the release of the 2018 Report Card for Missouri's Infrastructure; numerous successful technical seminars and conferences; K-12 Outreach Events including local career days, popsicle bridge competitions, and Engineer's Week activities; and interactions with student chapters including Mid-Continent Student Conference held at SIU – Carbondale and our student chapter sponsorships. We have seen a surge in

attendance at our monthly luncheons and social events which have provided professional development and networking opportunities for our members. Additionally, thanks to the generous support of our membership, the Dream Big DVD will be provided to every US public school. The DVDs are scheduled to arrive in the St. Louis area in June, which is delayed due to a rights agreement with the St. Louis Science Center. As we move toward spring, more information will be provided on the Dream Big Toolkit which will accompany each DVD. The Toolkit will include information for educators on incorporating the DVD into their curriculum.

2018 has also left us with a lot of work to do. The defeat of Proposition D has shown we have a long way to go to develop solutions for the infrastructure crisis. These solutions will require creating partnerships with diverse groups to educate the public on the hidden costs of substandard systems, the benefits to residents and businesses of having reliable infrastructure, and the need to invest in our communities to avoid sending the mounting bill to our children and grandchildren.

2019 provides more opportunities to move forward personally and professionally. I encourage you to include ASCE involvement a resolution for the New Year. Whether it be attending a monthly luncheon or Institute event, participate in an outreach activity, or become involved in our government relations efforts, small steps can make a big difference to the profession especially when the load can be shared by our 1,500 members. Whatever you choose to pursue, I wish you a healthy and productive 2019.

Best Regards,

Chad Schrand, PE, SE, M.ASCE, F. SEI

cmschrand@hornershifrin.com

Committee Chair Openings

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

Awards Committee – The Awards Committee is responsible for coordinating the selection of local award recipients and candidates for Society award consideration. Responsibilities also include coordinating the presentation of new Life Members their certificates and pins.

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

Life Member Committee - The Life Member Committee Coordinator serves as a contact point for life members, keeping life members informed about the activities of the chapter and organizing any life-member oriented activities.

Have You Renewed Your ASCE Membership?

Have you renewed your ASCE Membership? Although we start a new year, it’s not too late to renew your membership, and continue to enjoy the local and national benefits that ASCE provides.

Take advantage of networking with your colleagues in the St. Louis area at our monthly luncheons, get involved in supporting causes such as improving the region’s infrastructure, and enjoy many opportunities for continuing education, made possible by the ASCE local institutes.

For additional information about what your membership provides, please visit <https://www.asce.org/member-benefits/>. Also feel free to contact Lyle Simonton at lsimonton@subsurfaceconstructors.com for information about getting more involved with the ASCE St. Louis Section.

ASCE Construction Committee Tour

ASCE Construction Committee Tour to Ben Hur Steel Worx

5319 Shreve Avenue, St. Louis MO 63115

Tour starts at 4pm on March 6, 2019

Space is limited. Please contact Anne Werner at awerner@siue.edu.



**GEO-
INSTITUTE**
St. Louis Chapter



Geo-Institute of ASCE – St. Louis Chapter

Presents a webinar titled

**Observation Method for Scour:
A New Tool for the Bridge Engineer**

- DATE AND TIME:** Friday, February 1, 2019
Doors open at 10:00AM for registration
Live webinar from 10:30AM to 12:00PM
Pizza and soda/water will be provided.
- LOCATION:** Geotechnology, 11816 Lackland Road, Suite 150, St. Louis, MO 63146
Remote access is not available.
- COST:** \$10.00 per person. Payment can be made by cash, credit card, or check (payable to ASCE St. Louis Section).
- PDH:** Attendees will earn 1.5 PDH
- RSVP:** *Please register by Wednesday, January 30* at <https://goo.gl/k7CnAA> (case sensitive)

Who should attend:

Hydraulic engineers, geotechnical engineers, structural engineers, DOT engineers, and others.

Topics include:

- Bridge scour depth calculations
- Current design guidelines
- New method: observation method for scour, or OMS
- Comparison against case histories and measured data
- Advantages and drawbacks

If you've signed up and can't make it, please cancel with Jake Schaeffer (jschaeffer@mps-il.com or 314-560-9154) by Wednesday, January 30 or we will have to charge you for the meal.



**GEO-
INSTITUTE**
St. Louis Chapter



Geo-Institute of ASCE – St. Louis Chapter

Presents a webinar titled

A Data Base and Recommendations on 320 Failed MSE Walls with Geosynthetic Reinforcement

- DATE AND TIME:** Tuesday, February 26, 2019
Doors open at 10:00AM for registration
Live webinar from 10:30AM to 12:00PM
Pizza and soda/water will be provided.
- LOCATION:** Geotechnology, 11816 Lackland Road, Suite 150, St. Louis, MO 63146
Remote access is not available.
- COST:** \$10.00 per person. Payment can be made by cash, credit card, or check (payable to ASCE St. Louis Section).
- PDH:** Attendees will earn 1.5 PDH
- RSVP:** *Please register by Friday, February 22* at <https://goo.gl/8r25D8> (case sensitive)

Who should attend:

Reinforced MSE wall and slope design engineers, general civil, geotechnical and geosynthetic consulting engineers, private property developers and architects, permitting engineers from municipal districts and townships, contractors and installers of these systems, and Insurance companies and attorneys.

Topics include:

- Data on 320 quite similar failures (estimated to be about 8% of the total worldwide failures)
- Bring attention to this serious situation with respect to geotechnical and geosynthetic engineering communities
- Four main design and construction issues which are felt to be greatly contributing to the failures
- Use of fine grained silts and/or clay backfill soils
- Poor compaction of these fine-grained soils
- Need for removal of internal drainage and piping systems
- Need for proper surface and adjacent water control

If you've signed up and can't make it, please cancel with Jake Schaeffer (jschaeffer@mps-il.com) or 314-560-9154) by Friday, February 22 or we will have to charge you for the meal.

Younger Member Group Update

January YMG Meeting

Thursday, January 10, 2019
Flannery's Pub
1320 Washington Avenue, 63103
6 pm to 8 pm
<http://flanneryspub.com/>

YM Upcoming Events:

- February 8-9 – CRYMC at the Multi-Region Leadership Conference (Dallas, TX)
- May 4 – Rebuilding Together

YMG 2018-2019 Calendar

*Subject to change throughout the year

October YMG Meeting:

Thursday, October 11, 2018
Urban Chestnut
4465 Manchester Ave, 63110
6 pm to 8 pm
<http://urbanchestnut.com/home/>

November YMG Meeting:

Thursday, November 8, 2018
Hotshots
1319 Central Park Dr, 62269
6 pm to 8 pm

December YMG Meeting:

Thursday, December 13, 2018
International Tap House
16 S. Euclid Ave, 63108
6 pm to 8 pm
<https://www.internationaltaphouse.com/>

January YMG Meeting:

Thursday, January 10, 2019
Flannery's Pub
1320 Washington Avenue, 63103
6 pm to 8 pm
<http://flanneryspub.com/>

February YMG Meeting:

Tuesday, February 12, 2019
The Lake House
2822 N. Center St., 62062
6 pm to 8 pm

March YMG Meeting:

Thursday, March 14, 2019
Fieldhouse
510 N Theresa Avenue, 63103
6 pm to 8 pm
<http://fieldhousetl.com/>

April YMG Meeting:

Thursday, April 11, 2019
McGurk's
1200 Russell Blvd, 63104
6 pm to 8 pm
<http://www.mcgurks.com/>

May YMG Meeting:

Thursday, May 9, 2019
Start Bar
1000 Spruce Street, 63102
6 pm to 8 pm
<http://startbarstl.com/>



EWRI St. Louis Monthly Speaker Series Event

The St. Louis Section of EWRI is pleased to announce our monthly webinar on **Thursday, January 17, 2019 at 11:30 am-12:30 pm.**

This presentation will be broadcast live over a webinar. Registration is free to ASCE members, **Advance registration is required by Noon Monday, January 14, 2018.** Please register online in advance at the following link:

[https://docs.google.com/forms/d/e/1FAIpQLSett23vrZ79L3B3VtnV5nxypqgVBOXiwBaIpaOJF2ZFROB4ng/v
iewform](https://docs.google.com/forms/d/e/1FAIpQLSett23vrZ79L3B3VtnV5nxypqgVBOXiwBaIpaOJF2ZFROB4ng/viewform)

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

Missouri Water Resources Plan Update

Missouri's Water Resources Center is currently updating the State's Water Resources Plan. Missourians have long appreciated the need for water planning in the state with the first state plan completed in 1938. The plan is intended to provide a long-range, comprehensive strategy for the water resources of the state. It does this, in part, by analyzing existing and future needs of a variety of users and uses as well as analyzing the supply available now and in the future. The Department is engaging a wide range of stakeholders in updating the plan. The Missouri Water Resources Plan update is scheduled to be largely complete in the fall of 2019.

Speaker: Jennifer Hoggatt serves as the Director of the Department's Water Resources Center. She has been with the Department since 2008, previously working in the Director's Office and for the Division of Environmental Quality's Water Protection Program. A native of Southwest Missouri, Jennifer grew up enjoying plentiful fishing, hiking and water recreation activities around places such as Roaring River State Park and Table Rock Lake. She holds a Bachelor of Science in Biology from Missouri Southern State University and a Master of Environmental Science and Management from University of California-Santa Barbara.

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

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



St. Louis Chapter

Missouri Society of Professional Engineers



**Advancing Technology
for Humanity**

January Joint Luncheon

Protecting Your Inventions and Ideas: Intellectual Property Fundamentals for an Engineer

Engineers are fundamentally inventors every day. Many times, the sweat and financial toils of both the employer and employee should be protected in terms of a patent. Mr. Kirk Damman, J.D. a patent attorney at Lewis Rice will shed insight and helpful information for our members to use in protecting Intellectual Property both in the United States and Internationally. The general process of preparing for invention disclosure, identifying a skilled attorney for one's particular technology and interfacing with that attorney will be discussed. Questions will be answered as time permits. Earn 1 PDH for this program.

About the Presenter:

Kirk A. Damman, J.D.: practices in all areas of intellectual property law with an emphasis on helping startup and growing companies begin to manage, license, and gain value from their intellectual property (patents, trademarks, copyrights, and trade secrets) and obtain protection for their most important ideas and products. Licensed to practice in front of the United States Patent and Trademark Office for more than 10 years, Mr. Damman has co-authored two books on patent law and serves as the director of the United States Patent Practice (Patent Agency) degree program at Webster University. He works with clients whose products are as diverse as: circuit and electrical designs; medical devices; computer software and Internet; heavy equipment and manufacturing; alternative energy and fuel; and consumer goods. Mr. Damman is a 1999 graduate for Harvard Law School and member of IEEE. Kirk was selected for inclusion in Missouri & Kansas Rising Stars® 2010 and 2013.

Where: Engineering Club of St. Louis, 4359 Lindell, St. Louis 63018

When: January 17, 2019, 11:30am to 1:00pm. Lunch at Noon and program at 12:15.

Cost: \$20/person or \$5/students

Registration

Please register and pay online using the link below for reservations by 5:00pm, Friday, January 11th, 2019. If you've signed up and can't make it, please cancel by Friday before the meeting or we may have to charge you for the meal.

<https://www.mspe.org/event-3126221>

Contacts

Michael Buechter, PE, D.WRE, MSPE President
314-768-2555 office
mtbuec@stlmsd.com
<https://mspe.org/>

Eric Hollmann, PE, Program Chair
314-206-4232 office
Eric.Hollmann@wsp.com

Save the Date for 2019 GeoMO

GeoMO will be an all-day geotechnical conference on May 10, 2019 in St. Louis, Missouri. The event is organized by Missouri University of Science and Technology. Visit <https://geomo.mst.edu/> for more information.



SAVE THE DATE

DATE: Friday, May 10, 2019 | 8 a.m. – 5 p.m.

LOCATION: St. Louis, Missouri

SPEAKER:



Keynote lecture by:

W.D. Liam Finn, Ph.D.

Professor Emeritus University of British Columbia
President, Pan-American Engineering and Computing

ORGANIZED BY: MISSOURI UNIVERSITY OF SCIENCE AND TECHNOLOGY
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WHO SHOULD ATTEND:

- Geotechnical Engineers
- Civil Engineers
- Environmental Engineers
- Geophysicists
- Geologists/Hydrogeologists
- Bridge/Infrastructure Engineers
- Designers of —
Restoration of Pavements
and Other Infrastructures
- Owners and Operators
- Planners and Regulators
- DOT Engineers
- Graduate Students

6 Professional Development Hours
for professional licensure requirements



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geomo.mst.edu

Professional Engineer Refresher Course

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

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

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

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

**Deadline for Registration:
Wednesday, January 24, 2019**

How to Enroll – 4 Ways to Register:

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

Course content inquiries should be directed to

Lisa Cheng, P.E.

(314) 425-8355 or

lisa.cheng@hdrinc.com

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

Employment



Horner & Shifrin, Inc. is a Federal Contractor, Equal Opportunity Employer M/F/Disability/Veteran. We are a 100% Employed Owned firm, offer a generous benefits package and named a Top Workplace by the St. Louis Post-Dispatch for 2017 and 2018. If you are interested, you must apply through our website at www.hornershifrin.com/careers. Visits and phone calls will not be accepted. Learn more about us at www.hornershifrin.com.

Building Structural Project Manager - St Louis

YEARS OF EXPERIENCE: 7-10 YEARS

Horner & Shifrin is seeking a driven and goal orientated Building Structural Engineer for the growing Building Services Structural Team. The selected candidate will work with clients and project teams on the design, analysis, and evaluation of structural systems in steel, concrete, timber, and masonry. The ideal candidate will be eager for opportunities in professional and client development.

POSITION REQUIREMENTS:

- Licensed PE, SE preferred
- Ability to perform complex design calculations
- Ability to create construction documents (plans & specifications)
- Proficient in AutoCAD, Revit Structure, Ram Structural System, and structural analysis software
- Excellent verbal and written communication skills
- Must possess a valid driver's license
- Must be able to pass a background check
- Team player

EDUCATIONAL REQUIREMENTS: M.S. in Civil Engineering with an emphasis in Structural Engineering.

SALARY RANGE: Salary will commensurate with experience.

Building Structural Project Engineer - St Louis

YEARS OF EXPERIENCE: 4+ YEARS

If you are seeking to join a reputable engineering firm that operates by the principles of exceeding the highest standards of integrity, while cultivating a challenging, rewarding and safe environment for our employee-owners, then we want you!

Horner & Shifrin is seeking a driven and goal orientated Building Structural Project Engineer to support our growing Water division. The ideal candidate will have 4+ year's experience. The selected candidate will work with project managers and teams on the design, analysis, and evaluation of structural systems in steel, concrete, timber, and masonry. The ideal candidate will be eager for opportunities in professional and client development.

POSITION REQUIREMENTS:

- Licensed PE, SE preferred
- Ability to perform complex design calculations
- Ability to create construction documents (plans & specifications)
- Proficient in AutoCAD, Revit Structure, Ram Structural System, and structural analysis software
- Excellent verbal and written communication skills
- Must possess a valid driver's license
- Must be able to pass a background check
- Team player

EDUCATIONAL REQUIREMENTS: B.S. in Civil Engineering with an emphasis in Structural Engineering. Masters preferred.

SALARY RANGE: Salary will commensurate with experience.

Business Development Manager - St Louis

Horner & Shifrin is seeking an experienced driven and goal orientated Business Development Manager for the growing Business Development Team. The selected candidate will be responsible for securing new business opportunities as well as maintaining existing business. The ideal candidate will work closely with and support the leaders in the firm to maximize the effectiveness of client relations.

POSITION REQUIREMENTS:

- Comprehensive knowledge of firm's practice, clientele, goals, policies and procedures.
- Excellent leadership/managerial and mentoring/teaching skills.
- Possess strong business development skills with a proven record of accomplishment of selling on value and building relationships.
- Must possess a high level of professionalism and interpersonal skills to be able to work well with employees at all levels within the organization and maintain all information in strict confidence.
- Must possess attention to detail, ability to balance multiple projects and have strong time management skills.
- Follow through in a consistent manner
- Valid driver's license
- Must pass a background check

EDUCATIONAL REQUIREMENTS: Bachelor degree in Business or related field.

SALARY RANGE: Salary will commensurate with experience.

Transportation Project Engineer

CLASSIFICATION: FULL-TIME

OFFICE LOCATION: O'Fallon, IL; Chicago, IL

YEARS OF EXPERIENCE: 2-10 YEARS

Horner & Shifrin is seeking a full-time Transportation Project Engineer. This position requires 2-10 years of experience. This position is assigned specific, high-responsibility-level tasks on project teams; and are expected to resolve engineering/architectural problems and tasks as they are assigned; with help as needed, from more experienced staff.

POSITION REQUIREMENTS:

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

EDUCATIONAL REQUIREMENTS: B.S. in Civil Engineering

SALARY RANGE: Salary will commensurate with experience.

Transportation Project Engineer

CLASSIFICATION: FULL-TIME

OFFICE LOCATION: St Louis, MO

YEARS OF EXPERIENCE: 5-10 YEARS

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

POSITION REQUIREMENTS:

- Candidate will work under licensed engineer
- Will be trained/proficient in the use of Microstation and Geopak or AutoCAD Civil 3D

- Ability to produce construction bid documents (plans and specifications)
- Proficiency using Microsoft Office software (Outlook, Excel, Word)
- Other duties as assigned

EDUCATIONAL REQUIREMENTS: B.S. in Civil Engineering

SALARY RANGE: Salary will commensurate with experience.

Transportation Engineer

CLASSIFICATION: FULL-TIME

OFFICE LOCATION: St Louis, MO

YEARS OF EXPERIENCE: 0-5 YEARS

Horner & Shifrin is seeking a full-time Transportation Engineer. This is an entry-level position and requires 0-5 years of experience. This position is assigned specific tasks on project teams; and is expected to resolve engineering problems and tasks, as needs arise; with help, as needed, from more experienced staff.

POSITION REQUIREMENTS:

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

EDUCATIONAL REQUIREMENTS: B.S. in Civil Engineering

SALARY RANGE: Salary will commensurate with experience.

Transportation Project Manager

CLASSIFICATION: FULL-TIME

OFFICE LOCATION: CHICAGO, IL

YEARS OF EXPERIENCE: 10+ YEARS

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

POSITION REQUIREMENTS:

- Licensed professional engineer in Illinois
- Interact and communicate with clients, vendors and staff of all levels
- Ability to lead, manage and schedule staff to meet project needs
- Proficiency using Microsoft Office Products (Word, Excel, Access)
- Experience using at least one CADD platform (MicroStation or AutoCAD)
- Knowledge of at least one highway design package (Geopak SS4 or Civil3D)
- Critical thinking and analysis
- Perform transportation engineering analyses and calculations
- Prepare and write engineering and other reports
- Strong client relationships and ability to develop business
- Field visits on rough terrain per project needs
- A valid driver's license and the ability to drive to and from job sites.
- Other duties as assigned

PREFERRED REQUIREMENTS:

- Experience working directly with the Illinois Department of Transportation or Illinois State Toll Highway Authority
- Existing business development relationships with key staff in Greater Chicagoland area.

EDUCATIONAL REQUIREMENTS: B.S. in Civil Engineering

SALARY RANGE: Salary will commensurate with experience.

Business Unit Leader, Building Services (Mechanical, Electrical, Plumbing & Fire Protection)

CLASSIFICATION: FULL-TIME

OFFICE LOCATION: ST. LOUIS, MO

POSITION REQUIREMENTS:

- Responsible for successfully leading, setting the strategic direction and growing the firm as well as their individual business unit.
- Delivers profit and growth within the business unit.
- Oversees quality control / quality assurance processes within the business unit.
- Monitors trends and developments within the industry and proactively positions the firm to take advantage of opportunities.
- Cultivate a challenging and supportive climate within the business unit to foster a high level of employee satisfaction, performance, growth, and commitment.
- Directly and indirectly supervises employees in the MEP Business Unit. Carries out supervisory responsibilities in accordance with the Firm's policies and procedures and applicable laws. Responsibilities include interviewing, hiring, training and developing employees; planning, assigning, delegating, and directing work; appraising performance; rewarding and disciplining employees; addressing complaints and resolving problems.
- Regularly reviews workload projections and resources and recommend adjustment as necessary to fulfill commitments. Review invoices, cost data, schedules, and budgets with appropriate managers to ensure completion on a timely basis.
- Proactively coordinates with business development staff to maintain a proper level of backlog.
- Identify and convert new business opportunities to contract backlog.
- Direct relationship building, potential project development, proposal development and contracting between the Firm and clients.
- Coordinate and interface with sub-consultants, other internal office and external agencies, as appropriate.
- Perform project manager duties, primarily limited to major projects of high complexity.

EDUCATIONAL AND EXPERIENCE REQUIREMENTS: B.S. in Civil, Mechanical, Electrical, or Fire Protection Engineering; advanced degree in preferred. 15-20 years of significant technical experience in public or private sector. Experience managing a team is required. Existing business development relationships with key staff in area municipalities is preferred.

SALARY RANGE: Salary will be commensurate with experience.



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

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

Essential Job Functions:

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

Minimum Qualifications:

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

Preferred Knowledge, Skills, Abilities, and Experience:

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

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

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

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

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



Senior Bridge Project Engineer

<http://www.hntb.com/careers>

Job ID: 1018-19763

For more than a century, HNTB has helped deliver infrastructure solutions that best meet the unique needs of our clients. With client relationships spanning decades, we understand infrastructure life cycles and have the perspective to solve technical challenges with clarity and imagination. We are far more than a design firm. We see and help address far-reaching issues of financing, legislation, design, construction, community outreach and ongoing operations. As employee-owners committed to the highest levels of performance, we enable clients to achieve their goals and inspiring visions.

Just like we are committed to delivering for our clients, HNTB is also committed to delivering for you by offering benefits to protect the health of you and your family, help you balance family and career, and build your savings for retirement. Learn more at <https://www.myhntbtotalsrewards.com>.

Overview

The time is right to join HNTB Corporation! We are seeking a Senior Bridge Project Engineer to lead projects from our St. Louis, Missouri office.

Job Summary

Provides coordination of project execution and control, in a given discipline area, to achieve continuity of purpose within scope, budget, and time schedules from initial start-up through project closeout. Also accountable for handling specific design aspects on projects appropriate to discipline field. Coordinates efforts of assigned design team to ensure completeness and accuracy of design effort. Serves as technical liaison with client on project efforts. Responsible for gross revenue of \$1-\$2M.

Essential Responsibility

- Responsible for the delivery of project discipline scope elements within budget and schedule.
- Oversees completeness and accuracy of project team's work. Supervises and guides team to overall project objectives.
- Provides senior-level technical expertise to client on project aspects within the discipline.
- Assists with project management duties.
- Performs other duties as assigned.

Basic Qualification

- Bachelor's degree in Engineering
- 10 years relevant experience

Preferred Qualification/Skills

- Master's degree in Engineering
- PE/AICP

General Work Conditions

Combination Office and Field Environment: Most work is performed in an office environment in which there is only minimal exposure to potentially unpleasant working conditions. Incumbent must have the ability to stand and sit frequently and reach horizontally as well as vertically for overhead use. Work may infrequently be performed at client's job site, construction trailer, and in the field. Work may sometimes require working in inclement weather, working in a construction site, being exposed to heavy construction equipment and doing extensive walking. Adherence to applicable safety protocol is required.

HNTB Corporation is an Affirmative Action and Equal Opportunity Employer, Minority/Female/Disabled/Veteran.

The HNTB Companies are an equal opportunity employer and does not discriminate on the basis of race, color, religion, creed, sex, national origin, age, disability, pregnancy status, sexual orientation, gender identity, veteran status, marital status, genetic information, citizenship status, or other status protected by law. In compliance with the Immigration Reform and Control Act of 1986, we will hire only U.S. citizens and aliens lawfully authorized to work in the United States (if the position is or will be one which is subject to U.S. law). We will provide reasonable accommodation for qualified individual with a disability where appropriate.



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

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

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

Structural - Bridge Engineer

To accommodate the continued growth in our structural - bridge department, we are seeking a motivated and energetic individual for an entry level or project engineer position. Work will be out of our Collinsville, Illinois office.

The ideal candidate will possess the following:

- Bachelors or Masters in Civil Engineering with emphasis in structures
- EIT certificate or PE/SE license
- New graduate to 10 years of bridge design experience
- Proficient in MicroStation, and Microsoft Office
- Strong technical, communication and presentation skills
- Experience working with local agencies and State DOT's preferred
- Ability to conduct field visits for bridge inspections

Typical responsibilities will include:

- Bridge inspection and reporting
- Bridge type and location studies
- Preliminary and final design including the development of construction documents
- Development of estimates of probable construction cost
- Load rating inspection and analysis

We are seeking a civil engineering project manager and a project engineer to work in our Facilities Group. This position is ideal for a civil engineer that enjoys working on a team, meeting and working with clients on building and site development, drainage, utility, and campus development projects ranging from \$10K to \$20M projects. Work will be out of our Collinsville, IL and St. Louis, MO offices.

Civil Engineer - Project Manager

The ideal candidate will also possess the following:

- Bachelors in Civil Engineering – Masters is a plus
- PE license or ability to get a license within 6 months
- 4 - 15 years of experience working with both governmental and private clients in Missouri and Illinois
- Proficient in AutoCAD Civil3D and Microsoft Office
- Strong writing and presentation skills
- Strong Technical skills in one or more of the following areas is a plus:
 - Hydrology and Hydraulics
 - Development Review for Municipalities

- Multi-Use Path and Park Design
- Commercial Site Design
- Water and Sewer Design

Typical responsibilities will include:

- Meeting with clients and potential clients to discuss projects
- Developing manhour estimates and proposals
- Managing project scope, schedule, and budgets
- Collaborating with project engineers, peers, and managers to develop designs
- Developing bid and construction documents
- Developing construction cost estimates
- Performing construction administration during construction operations

Civil Engineer - Entry Level to 5+ Years

The ideal candidate will also possess the following attributes:

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

Typical responsibilities will include:

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

To 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 Xiaomin (Sophie) You (ASCE newsletter editor) at xiaomin.you@wsp.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 might 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/stlouis/index.html>. 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/stlouis/index.html](http://sections.asce.org/stlouis/index.html)

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).



ASCE – St. Louis Section
c/o The Engineering Center
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