

March 2018

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Upcoming Events

March

- 9 – Erosion, Sediment and Stormwater Control Seminar
- 13 – March Luncheon
- 23 – EWRI Spring Seminar
- 27 – Order of the Engineer Ceremony at SLU
- 28 – Geo-Institute's Cross USA Lecture and Student Projects

April

- 14 – Work Zone Awareness 5K
- 26 – Announcement of 2018 Report Card for Missouri's Infrastructure and 7th Annual Legislative Drive-in

May

- 1-2 – Missouri Concrete Conference at MST



March Luncheon

Tuesday, March 13, 2018

Subject: *What's Hiding between the Boreholes? - Integrating Cross Hole Seismic Tomography and Wireline Geophysical Logging to Characterize Karstic Bedrock for Vertical Shaft Excavation Design*

Speakers

Douglas W. Lambert, RG - Geophysics Manager at Geotechnology, Inc.

Abstract: A 90-foot diameter, 150-foot deep drop shaft for access to a horizontal tunnel is to be excavated in an area of known karst. A grouting program must be designed to account for voids, fracture zones, and solution cavities that may serve as groundwater flow pathways. Cross-hole seismic tomography and wireline geophysical logging were performed to investigate possible karstic conditions surrounding the proposed shaft.

16 air hammer borings were advanced along the perimeter of a 140-foot diameter cylinder around the proposed shaft. The depths of the borings ranged between 120 and 140 feet below ground surface to a uniform bottom of hole elevation. In each boring wireline geophysical logging consisted of acoustic televiewer (ATV), natural gamma, spontaneous potential (SP), and electrical resistivity.

Crosshole seismic data were collected between adjacent borings in cylindrical fashion around the proposed drop shaft. A Geotomographie 5 KV compressional wave borehole sparker was energized at 0.5- to 1-meter spacings within each source boring. A string of 24 borehole hydrophones (Model AQ2000) were deployed at 0.5-meter intervals within each receiver boring. A Geometrics Geode seismograph was used to record the data. First breaks were picked and tomography profiles were processed using XW TOMO Version 7.3 by Geogiga Technology Corp.

The resulting three dimensional cylinder comprised of 16 adjacent, two-dimensional, tomographic profiles was tied to the geologic and geophysical logs and interpreted for the presence of groundwater flow pathways. In general, the geophysical data exhibited distinct geo-mechanical and geo-electrical signatures between the relatively horizontal limestone, dolomite (due to greater porosity) and clay. A highly incised weathered zone or solution-widened vertical joint was observed at two different locations along the cylinder which suggested an orientation of N70E. Other potential groundwater flow pathways were observed including high angle, low velocity zones (clay or water-filled solution-widened joints).

Time, Date, Location

11:30am to 1:00pm, March 13, 2018, 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 Link

<https://goo.gl/VnVsGg>

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President's Message



I am happy to announce that the ASCE St. Louis Section was recently chosen to receive one of the 2017 Outstanding Section and Branch Award Certificates of Commendation. This recognition is awarded to Sections and Branches that were selected as the runners-up for the Outstanding Section and Branch Awards. So yes, that basically means second place, and although we are a bit disappointed that we didn't win the big one, we are happy to be acknowledged for all of our hard work and activities. Congratulations to everyone who has participated in any of our activities over the past year.

Speaking of activities, I had the pleasure of attending the Engineer's Week Luncheon at the Clayton Plaza on February 20. The organizers of the luncheon have done a great job of putting it together in the last couple of years in particular, and the speakers and attendance have been excellent. I enjoy the opportunity to network with so many other St. Louis area engineers, many of which are civil engineers and ASCE members. Although I'm not sure we could accommodate the three hundred or so people that attend the E-week Luncheon, it would be incredible if we could make our monthly luncheon a must-attend event. Our attendance at the luncheons has been very good as of late, but I hope we can continue to show our members the value in networking with other members, and getting a PDH credit hour to do so. I encourage all of you to grab a coworker and head out to our monthly luncheon on March 13.

Lastly, for those that were able to see the *ASCE Dream Big: Engineering Our World* movie at the Science Center, you know how inspiring it is for young people in particular. ASCE is in the process of producing the movie on DVD and has a goal for 2018 of placing a DVD copy in every U.S. public school. Included with the DVD will be a toolkit with a teacher's guide and accompanying education videos. ASCE has launched a website (<https://www.engineersdreambig.org/>) that will allow individuals to give \$5 to place the toolkit/DVD in a school of your choice. Please consider this small contribution to support the STEM effort with our youth. Have a great start to your Spring, and I'll see you at the March 13 luncheon at the Engineering Center.

Respectfully,

Lyle Simonton, P.E.

lsimonton@subsurfaceconstructors.com

St. Louis Section Earns Commendation for Outstanding Section

From the Leader Training Committee:

On behalf of the Leader Training Committee, we would like to inform you that the St. Louis Section has been chosen to receive one of the 2017 Outstanding Section and Branch Award Certificates of Commendation. The recognition is awarded to Sections and Branches that were selected as the runners-up for the Outstanding Section and Branch Awards. The hard work, effort, and time you dedicate to making your Section successful are greatly appreciated, and we thank you for serving the members in your area.

The winners of this years' competition are:

- 1) Small Section/Branch (tie): Tallahassee Branch & Truckee Meadows Branch
- 2) Medium Section/Branch: Hawaii Section
- 3) Large Section/Branch: Dallas Branch
- 4) Very Large Section/Branch: Boston Society of Civil Engineers

We will be sending you the Certificate of Commendation within the next week.

Thank you again for taking the time to enter this year's competition and we look forward to your participation again next year.

Administration 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."

Membership Champion - The Membership Champion will be responsible for promoting membership in ASCE of all qualified civil engineers, and to encourage active membership in the local section by all ASCE members in the area. Responsibilities also include outreach to non-member civil engineers in the area, inviting them to Section meetings, and encouraging them to join and become active in ASCE.

Newsletter Editor – The Newsletter Editor will be responsible for producing and publishing the ASCE St. Louis Section monthly newsletter and mid-monthly updates, distributed electronically via email to Section membership. The Newsletter includes announcements regarding activities of the Section and furnishing news, both professional and personal, of special interest to the members. The Editor'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.

Region 7 Newsletter

Dear Region 7 Section, Branch, Younger Member, and Student Leaders and Student Chapter Faculty/Practitioner Advisors,

The latest ASCE Region newsletter has been posted on the Region 7 Website at the following link: <http://regions.asce.org/region7/region-7-newsletter-january-2018>. Archived newsletters can be found by clicking on "Newsletters" on the top bar of the website at this same link.

Please note that this newsletter is only sent to section, branch, younger member, and student leadership. We need your help to ensure that links to the Region newsletter are spread throughout your local group in whatever way you communicate with your members.

We'd particularly appreciate links in monthly newsletters or direct distribution-whatever works best for your group. If your group wants to contribute in the future, we always welcome content! Please send articles, in Word format, as you'd like them to appear (we do not edit extensively) to this email address.

Thank you!

The Region 7 Board of Governors

7th Annual Legislative Drive-in



**Announcement –
ASCE Government Relations Committee
February 28, 2018**

Announcement of 2018 Report Card for Missouri's Infrastructure and 7th Annual Legislative Drive-in Jefferson City, Missouri Thursday, April 26, 2018

ASCE St. Louis and Kansas Sections will announce grades for the *2018 Infrastructure Report Card for the State of Missouri* at 10:30 AM in the First Floor Rotunda of the Capitol. The announcement will include speeches from ASCE, invited legislators, and industry interests. We will follow the announcement with a catered lunch in the Third Floor Rotunda and Alcove.

After lunch, plan to meet with your state senator and representative to discuss the report card and the need for infrastructure development to improve quality of life, job growth, and safety in our state. Please contact your state senator and representative to schedule meetings between 1:00 - 3:00 pm on that day.

To register or ask questions, contact Dennis Boll at 314-568-3125 or dboll@geotechnology.com.

2018 Report Card for Missouri's Infrastructure

The graphic features a blue outline of the state of Missouri. A large, thick red letter 'C' is superimposed over the map, with a red arrow starting from the top of the 'C' and pointing towards the right side of the state. Below the map is the ASCE logo, consisting of the acronym "ASCE" in a large, bold, blue font with three horizontal lines underneath, and the full name "AMERICAN SOCIETY OF CIVIL ENGINEERS" in a smaller, blue, sans-serif font below it.

**Will the grade for
Missouri's
Infrastructure be
better in 2018?**

**THE 2018 AMERICAN SOCIETY OF CIVIL
ENGINEERS (ASCE) INFRASTRUCTURE REPORT
CARD FOR THE STATE OF MISSOURI WILL BE
RELEASED ON THURSDAY, APRIL 26, 2018, AT
THE MISSOURI STATE CAPITOL. THE PROGRAM
WILL BEGIN AT 10:30 AM IN THE CAPITOL FIRST
FLOOR ROTUNDA. A CATERED LUNCH WILL
FOLLOW IN THE SENATE THIRD FLOOR ROTUNDA
AND ALCOVE AT 11:30.**

ASCE Younger Members Group

See you at our Next Meeting!

Thanks to everyone who came out to our meeting last month! Join us for our next meeting at Fieldhouse with SLU students!

Plan on attending? E-mail Melissa.Marks@ch2m.com

March YMG Meeting

Thursday, March 8, 2018
Fieldhouse
510 N Theresa Avenue, 63103
6 pm to 8 pm
<http://fieldhousetl.com/>

2018 Introduction to Engineering Workshop for Middle School Math Teachers

Saint Louis University, in conjunction with the St. Louis Section of the American Society of Civil Engineers, hosted an introduction to engineering workshop for the St. Louis area 7th and 8th grade math teachers. The workshop featured interactive and engaging learning experiences that teachers can use to motivate and prepare students to pursue careers

in Science, Technology, Engineering, and Math. Teachers left with a series of experiential learning modules that align with Common Core standards for 7th and 8th grade math classes along with the necessary materials to implement those modules in class. Our Younger Member Group volunteers Alison Graves and Melissa Marks volunteered to help Dr. Chris Carroll from St. Louis University in this activity day.



Engineers' Week at the Science Center – Volunteer Opportunity

Our Younger Member Group volunteered at Engineer's Week at the Science Center on Saturday, February 24th. Our group provided more information to kids and parents who are interested in Civil Engineering and also provided an interactive activity that allowed kids to build their own boats out of aluminum foil and then test their boats and how many pennies it could hold before sinking.



EWRI St. Louis News

Water Infrastructure Display at St. Louis Science Center

St. Louis ASCE EWRI is a co-sponsor and collaborator (through Metro Water Infrastructure Partnership (MWIP) in the pilot water infrastructure display at the St. Louis Science Center (SLSC). SLSC is capturing visitor comments regarding the display with the intent to finalize the remainder of the water/wastewater displays once final funding is available. St. Louis Section members are encouraged to visit the display and provide feedback.

Upcoming Events:

ASCE/EWRI 2018 Spring Seminar – March 23, 2018 7:30 AM – 4:00 PM, Engineers' Club of St. Louis. (See Pages 7 and 8 for details.)

EWRI St. Louis Section General Meeting --- April 17, 2018 at 10:30 AM Einsteins Bagels 8127 Big Bend in Webster Groves

April EWRI Water Resources Seminar--April 19, 2018 11:30 AM Speaker TBD

May EWRI Water Resources Seminar-- May 10, 2018 11:30 AM Speaker Steve Starrett (Dean of Engineering, LeTourneau University) on Ethics in Engineering

If you have questions, please contact Bob Holmes (bholmes@usgs.gov)



ENVIRONMENTAL &
WATER RESOURCES
INSTITUTE
St. Louis Chapter

THE ASCE ST. LOUIS SECTION AND EWRI PRESENT

2018 Environmental & Water Resources Institute Spring Seminar

WATER, WATER, EVERYWHERE

Join us for an informative ASCE/EWRI-sponsored seminar addressing current and emerging water-related topics in our region including drinking water, stormwater, and wastewater.

Seminar will be held at:

The Engineering Center
4359 Lindell Blvd. – St. Louis Missouri, MO 63108
Friday, March 23, 2018

Registration 7:30 AM to 8:15 AM
Program 8:15 AM to 3:45 PM
6 PDHs provided
Continental Breakfast and Lunch included

Cost:

\$60 for Members
\$90 for Non-members
\$30 for Students

Sponsorships available for \$150

Online Registration and Sponsorship Commitment available at the link below:

[Register HERE](#)

Questions?

Jiaman Xu
ASCE/EWRI Spring Seminar Committee Chair
314-880-4431
jxu@civildesigninc.com

2018

AGENDA

- 7:30 AM to 8:15 AM** **BREAKFAST/REGISTRATION**
- 8:15 AM to 8:25 AM** **Welcome and Introductions**
Speakers: Elise Ibendahl, P.E., C.F.M., Jacobs
Shirley Clark, Ph.D., P.E., D.WRE, Pennsylvania State University
- 8:25 AM to 9:40 AM** **New MSD Online Plan Review, Permitting & Inspection Website**
Speaker: John Grimm, P.E., Metropolitan St. Louis Sewer District
- 9:40 AM to 10:15 AM** **GIS Project Delivery for Water Infrastructure Projects**
Speakers: Laura Mwirigi Rightler, P.E., C.F.M., Civil Design, Inc.
Jeremy Linley, P.E., C.F.M., Civil Design, Inc.
- 10:15 AM to 10:25 AM** **BREAK**
- 10:25 AM to 11:00 AM** **Retrofitting and Maintenance of Stormwater Treatment Ponds and Traditional Flood Detention Basins for Improved Water Quality, Flood Control and Reuse**
Speaker: Steve Klein, P.E., P.H., Vice President, Barr Engineering Co.
- 11:00 AM to 11:35 AM** **Green Infrastructure Module in SWMM/PCSWMM**
Speaker: Azadeh Akhavan Bloorchian, Ph.D., Southern Illinois University Edwardsville
- 11:35 AM to 12:35 PM** **LUNCH**
- 12:35 PM to 1:10 PM** **Quality Control and Analysis of Field Collected Data to Evaluate the Impact of Green Infrastructures on Stormwater Reduction in Combined Sewers: St. Louis Case Study**
Speaker: Jianpeng (Jim) Zhou, Ph.D., P.E., BCEE, F.EWRI
Southern Illinois University Edwardsville
- 1:10 PM to 1:45 PM** **Low Impact Development Implementation in Combined Sewer Areas
A Summary of Initiatives Across the U.S.**
Speaker: David Sample, Ph.D., P.E., D. WRE
Virginia Polytechnic Institute and State University
- 1:45 PM to 2:20 PM** **St. Louis MSD's Green Infrastructure Program for CSO Reduction:
Overview and Grant Opportunities**
Speaker: Susan McCrary, P.E., Metropolitan St. Louis Sewer District
- 2:20 PM to 2:30 PM** **BREAK**
- 2:30 PM to 3:05 PM** **Maintaining Green Infrastructure — What are the Real Costs?**
Speaker: Holly Piza, P.E., Urban Drainage and Flood Control District, Denver, Colorado
- 3:05 PM to 3:40 PM** **The Good, The Bad, and The Ugly Truth About O&M**
Speaker: Ruth Ayn Hocker, P.E., D.WRE, City of Lancaster, Pennsylvania
- 3:40 PM to 3:45 PM** **Closing**
Speaker: Jiaman Xu, E.I.T., Civil Design, Inc.



**GEO-
INSTITUTE**
St. Louis Chapter



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

“Prediction of Ground Movements Associated with Tunneling” and Student Projects

Featuring
Dr. Andrew J. Whittle,
Geo-Institute’s Cross USA Lecturer for 2017-2018

DATE AND TIME: Wednesday, March 28, 2018

5:00 pm	Registration and networking; Student poster displays
5:30 pm	Buffet dinner
6:00 pm	Student posters presented
6:30 pm	Program begins

Attendees will receive up to 2 PDH credits.

LOCATION: Engineers Club of St. Louis, 4359 Lindell Boulevard, St. Louis, MO 63108

COST: \$40.00 for ASCE Members; \$50.00 for Non-ASCE Members; \$20.00 for Full Time Students. Advance payment by credit card is appreciated, or checks and credit cards will be accepted at the door.

REGISTRATION: Register by Wednesday, March 21 at

<http://events.r20.constantcontact.com/register/event?oeidk=a07ef3m4iioe06c00a2&llr=yonzmehab> OR

<https://goo.gl/DQSJtB> (case sensitive). Advance registration is required. ASCE is charged for all reserved meals. If you've signed up and can't make it, please cancel by 3/21/18 or we will have to charge you for the meal.

A limited number of **sponsorship opportunities** are available for this event. If interested, please contact Jake Schaeffer, Geo-Institute vice chair, at jschaeffer@mps-il.com.

Dr. Whittle earned his BSc. (1st class honors) in Civil Engineering from Imperial College in 1981 and Sc.D in Geotechnical Engineering at MIT (1987). He joined the MIT faculty as an Assistant Professor in 1988, became a Full Professor in 2000 and has served as Head of the Department of Civil and Environmental Engineering, 2009-2013. Dr Whittle is an expert in geotechnical engineering, whose research deals principally with formulation of constitutive models for representing the complex mechanical properties of soils and their application in predicting the performance of foundations and underground construction projects. His research has been widely used in the design of foundation systems for deepwater oil production facilities and in major urban excavation and tunneling projects including the Central Artery-Third Harbor Tunnel (‘Big Dig’) in Boston, and Tren Urbano in San Juan, Puerto Rico.

Annual ASCE/ASLA Golf Tournament



Save the date!!

ASCE and ASLA will hold our Annual ASCE/ASLA Golf Tournament the morning of Friday, September 7, 2018 at Forest Park Golf Course. Registration and sponsorship information are coming to the ASCE website and newsletter. In the meantime, mark your calendars now to help raise money for our scholarship fund!

Contact Matt Glisson at 314.569.9883 or mglisson@braunintertec.com for more information.

University News

Call for Concrete Canoe Judges

Southern Illinois University Carbondale is hosting this year's Mid-Continent Student Conference April 19-21, 2018. We are in search of engineers within the St. Louis ASCE section that might be willing to donate their time and expertise in judging the student competitions. We welcome all professionals and especially those with past concrete canoe or geo-wall judging experience. If interested in judging either of the competitions, please email Addison Jobe at jobey248@siu.edu

Order Of The Engineer

Hosted by SLU ASCE Chapter and the Civil Engineering Department



One-time Ceremony

No Dues or Extra Meetings

Reception with Light Food and Drink Afterward

\$25 Charge for Ceremony and Ring

Who:
Graduating Seniors
and Engineers in Industry

Date:
3/27/2018

Time:
7-9 pm

**Sinquefield Room, Rm 409
Inside DuBourg Hall**

The Order of the Engineer was initiated in the United States to foster a spirit of pride and responsibility in the engineering profession, to bridge the gap between training and experience, and to present to the public a visible symbol identifying the engineer.

Address:
Saint Louis University
221 N Grand Blvd
St. Louis, MO 63103

RSVP to asce@slu.edu by March 12th

Get Your Ring Sized!

Date TBA upon RSVP to the event
(Before March 12th)

Saint Louis University
3450 Lindell Blvd
St. Louis, MO 63103

Contact:
Phone: (309) 678-9262
Email: nicole.redden@slu.edu

SAINT LOUIS
UNIVERSITY
PARKS COLLEGE
of ENGINEERING, AVIATION
AND TECHNOLOGY

Erosion, Sediment and Stormwater Control Seminar

Erosion, Sediment and Storm Water Control Seminar

3 PDUs or PDHs
•
BREAKFAST INCLUDED



Field Day sponsored by Jersey, Madison, Monroe, and St. Clair County Soil and Water Conservation Districts

March 9, 2018
Southern Illinois University Edwardsville,
Morris University Center

Agenda

- 8:00 – 8:30: Registration/Visit our Vendors
- 8:30 – 8:40: Introduction
- 8:40 – 9:25: Janet Buchanan, Heartlands Conservancy
 - Watershed Planning
- 9:25 – 10:10: Mike Hartoin, Mary Weatherford, SCI Engineering
 - Stone Toe Protection
- 10:10 – 10:30: Break – Visit our Vendors
- 10:30 – 11:15: Dan Salsinger
 - Dewatering and Buffering Techniques
- 11:15 – 12:00: J. Asher Left, U.S. Army Corps of Engineers
 - Big River Watershed Sediment Reduct

Register online:
<https://goo.gl/mGkz5K>
Parking is FREE in Lot B





New Dates: May 1-2, 2018

REGISTER

Conference Topics

MATERIALS:

- *Evaporation Retarders*
- *Mixture Incompatibilities*
- *Eastern Missouri Pavement Consortium*

READY MIX/PRE-CAST OPERATIONS:

- *Mix Monitoring During Delivery Using "VERIFI"*
- *Aggregate Proportioning Techniques*

CONSTRUCTION:

- *Sawed Joint Failures: Case Histories*
- *Poplar Street Bridge*
- *The Ins and Outs of Pumping*
- *Troubleshooting Case Histories*

MAINTENANCE & REPAIR:

- *Hydrodemolition & Bridge Deck Rehab*
- *Deicers & Protection of Concrete*
- *Partial Depth Patching*
- *New Concrete Pavement Distress Manual*

QUALITY CONTROL & INSPECTION:

- *Correlation Compressive & Flexural Strength*
- *Quality Placement from a QC Point of View*

DESIGN & SPECIFICATION:

- *New FAA Concrete Paving Specs*
- *Evolution of Concrete Bridge Decks*

Employment

Highway Supervisor – Public Works

Posted 2/20/2018

Salary

- **Minimum: \$41,098**
- **Maximum: \$67,811**

Job Summary:

The Highway Supervisor supervises, plans, schedules crews engaged in roadway feature maintenance and repairs; interacts with the public, vendors, and elected officials.

Minimum Qualifications:

High school diploma or its equivalent.

Must have working knowledge of email, Word and Excel.

Seven years of experience relating to the construction, repair and maintenance of roadways, or storm drainage systems including the operation of related maintenance equipment.

Two years of management experience or supervision preferred.

Must be able to abide by the requirements of being a Jefferson County first responder.

Must possess a valid State Class E Commercial driver's license.

Knowledge, Skills & Abilities:

- Working knowledge of County practices and procedures.
- Ability to communicate effectively, orally and in writing.
- Ability to establish and maintain effective working relationships with other employees and the general public, including supervision of workers.
- Thorough knowledge of equipment, facilities, materials, methods and procedures used in public works, storm drainage systems, and roadway systems.
- Thorough knowledge of road construction and maintenance.
- Knowledge in operation of the listed tools and equipment.
- Ability to guide, direct and motivate employees.
- Ability to direct the operation of various equipment used in road maintenance and repair such as backhoe, dump trucks and road graders.
- Ability to organize and supervise the activities of various crews performing construction and maintenance work.
- Ability to work whenever necessary; work schedule is determined by weather conditions and can be long and strenuous without scheduled days off for extended periods. Starting times are varied and cannot be set by employee.
- Knowledge of operation and use of motorized vehicles and equipment, including dump truck, pickup truck, utility truck, street sweeper, street roller, backhoe, man lift, tamper, plate compactor, saws, pumps, compressors, sanders, generators, trencher, common hand and power tools, shovels, wrenches.
- Skill in use of mobile radio and phone.

To Apply:

Please complete the online application found at www.jeffcomo.org by 11:59 P.M. on March 6, 2018. Resumes are accepted as supplemental information only and will not be used as a substitute for the application, you must complete the application in full.

It is the policy of Jefferson County to provide Equal Opportunity to all employees and applicants for employment, regardless of any individual's race, religion, sex, national origin, age, disability or any other protected class status.

Opportunities Posted by Horner & Shifrin, Inc.

POST DATE: 01/10/2018

POSITION TITLE: TRANSPORTATION ENGINEER

CLASSIFICATION: FULL-TIME

OFFICE LOCATION: St. Louis

YEARS OF EXPERIENCE: 0-2 YEARS

Horner & Shifrin is seeking a full-time Transportation Engineer. This is an entry-level position and requires 0-2+ 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 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.

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 has been named a 2017 Top Workplace by the St. Louis Post-Dispatch.

If you are interested, please 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.

POST DATE: 01/10/2018

POSITION TITLE: TRANSPORTATION PROJECT ENGINEER

CLASSIFICATION: FULL-TIME

OFFICE LOCATION: O'Fallon, IL; St. Louis; 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.

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 has been named a 2017 Top Workplace by the St. Louis Post-Dispatch.

If you are interested, please 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.

POST DATE: 01/10/2018

POSITION TITLE: 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.

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 has been named a 2017 Top Workplace by the St. Louis Post-Dispatch. If you are interested, please 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.

POST DATE: 01/10/2018

POSITION TITLE: TRANSPORTATION PROJECT MANAGER

CLASSIFICATION: FULL-TIME

OFFICE LOCATION: O'Fallon, 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
- 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.

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Opportunities Posted by Oates Associates, Inc.

Civil Engineer – Entry Level to 5+ years

We are seeking a project engineer to work in our Facilities Group on building and site development, drainage, utility, and campus development projects. Work will be out of our Collinsville, IL and/or our St. Louis, MO offices. Competitive salaries are offered commensurate to experience. The ideal candidate will 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.

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. Please send resume and salary history to:

OATES ASSOCIATES, INC.

100 Lanter Court, Suite 1

Collinsville, IL 62234

618.345.2200 618.345.7233

oai@oatesassociates.com www.oatesassociates.com

Civil Engineer Project Manager

We are seeking a civil engineering project manager to work in our Facilities Group on building and site development, drainage, utility, and campus development projects. Work will be out of our Collinsville, IL and St. Louis, MO offices. Competitive salaries are offered commensurate to experience. The ideal candidate will possess the following:

- Bachelors in Civil Engineering – Masters is a plus;
- PE license;
- 5 - 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.

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. Please send resume and salary history to:

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Collinsville, IL 62234

618.345.2200 618.345.7233

oai@oatesassociates.com www.oatesassociates.com

Building Structural Engineer - Project Manager

We are seeking a structural engineering project manager to work in our Facilities Group on new building and building renovations projects. Work will be out of our St. Louis, MO and Collinsville, IL offices. Competitive salaries are offered commensurate to experience. The ideal candidate will possess the following:

- Bachelors in Civil Engineering or Architectural Engineering – Masters is a plus;
- PE license – SE license is a plus;
- 4 - 20 years of experience working with both governmental and private clients in Missouri and Illinois;
- Experience with structural steel, reinforced concrete, and/or masonry design;
- Proficient in AutoCAD and Microsoft Office;
- Working knowledge of structural engineering software – RAM, RISA, Revit;
- Working knowledge of building Codes – IBC, ASCE, ACI, and AISC.

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. Please send resume and salary history to:

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Transportation Engineer

Oates Associates is an established engineering practice offering civil and structural engineering services for transportation, site and building projects. To accommodate the continued growth in our transportation department, we are seeking engineers for Project Engineer positions. Work will be out of our Collinsville, IL and St. Louis, MO offices. The ideal candidate will possess the following:

- Bachelors in Civil Engineering – Masters is a plus;
- EIT certificate or PE license;
- 3-8 years of private or public agency engineering experience;
- Proficient in MicroStation / Geopak and Microsoft Office;
- Strong writing and presentation skills;
- Experience working with both local agency and DOT clients in Missouri and Illinois a plus;
- Strong Technical skills in one or more of the following areas is a plus:
 - Hydrology and Drainage Design.
 - Transportation Planning.
 - Highway and Local Road Design.
 - Traffic and Intersection Design.

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 welcome female, minority and veteran candidates for this position. Please send resume and salary history to:

OATES ASSOCIATES, INC.

100 Lanter Court, Suite 1

Collinsville, IL 62234

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CIVIL ENGINEER Design – Capital Projects

The Metropolitan St. Louis Sewer District (MSD) is a Missouri State special purpose political subdivision that is responsible for the St. Louis area's storm water and sewer collection and treatment. MSD ranks in the nation's top wastewater utilities, and is making a significant investment in capital infrastructure and asset sustainability over a multi-decade period.

The District is seeking an individual to fill a position within the Engineering Department - Design Division. This Project Manager position in the Capital Projects group will be responsible for coordinating the work of outside consulting firms. Duties will include, but not necessarily be limited to oversight of the design of storm, sanitary/combined sewers, and green infrastructure improvements; review plans, specifications and cost estimates; address concerns of impacted property owners; participation in meetings with public officials and the public at large to answer questions about the construction project; and other matters associated with the successful completion of the District's capital construction program.

Must be a graduate from a recognized college or university with major course work in civil engineering; and four years of progressively responsible related engineering experience, including at least two years of experience in sewer plan design and review and/or construction. Must be a licensed professional engineer in the Missouri or have the ability to become licensed within six (6) months of the date of hire.

Excellent compensation/benefits program. For more information and to apply go to www.stlmsd.com/careers under Civil Engineer.

Metropolitan St. Louis Sewer District

Human Resources
2350 Market St.
St. Louis, MO. 63103

EEO M/F/V/H

Editor's note: As of March 1 there are numerous engineering job opportunities posted at the above link.