



Spotlight

a publication of SPOTTS • STEVENS • MCCOY



Evaluation | Collaboration | Innovation

February 16 – 22 is Engineers Week.

During this week, we highlight the important work that engineers all around the world do- the decisions they make, the education they pursue, the designs they create, and the problems they solve. From the engineers that create something out of nothing, to the ones that bring new life to the existing- we acknowledge you.

But in addition to engineers around the world, this week we're especially proud to celebrate and honor the incredible engineers that make our teams thrive and make our clients' projects succeed.

We are proud to have engineers that do more than just create solutions. Because good engineers get the job done, but great engineers make the world a better place. At SSM, we believe in improving the quality of life for our clients and for all of the people touched by the work that we do. We are proud to have engineers that live that mission every single day and share it through every single decision they make.

Our engineers evaluate. They collaborate. And, they innovate.

Good engineers complete tasks. Great engineers- our engineers- believe in quality work with lasting value. Great engineers take pride in clients' success. Great engineers believe our people, are your people.

This week, we're celebrating our engineers. Not only for the skills they use every single day, the knowledge and expertise they bring to every project, or every single solution they provide day after day- but we celebrate our engineers for the passion, the commitment, and the care that they have always and continue to put in to the work that they do.

SSM engineers- we celebrate you.

“Fundamentally, engineers ensure safety, comfort, and environmental responsibility through the use of ever improving forms of technology.”

What do engineers do?

To celebrate Engineers Week, we've set out to answer a question that more people ask than you might expect- ***What exactly do engineers do?***

Some of us have memories of engineering experiments in grade school (building structures with marshmallows and spaghetti, making built cars move with straws and balloons, dropping eggs from the roof of the school). Some of us just know engineering as the field that we could literally never survive in (Math? No thank you!). Some of us still wonder if the people on trains are actually engineers, or what on earth the difference is between all those different fields of engineering.

Are engineers the ones designing things? Or are they the ones on the computer? Do they make decisions? Or do they just support other's needs and ideas? Are they really responsible for buildings standing and parking lots being set up safely? What about electrical stuff- how does that work?

From making clients' visions happen, to bringing new possibilities and opportunities to existing structures, roads, waterways, and more. Engineers create designs, they make decisions, and they create solutions.

We've asked our engineers to tell us- What do you do?

municipal engineering

City of Reading Schuylkill River Trail

Nick designed the Schuylkill River Trail Multi-Use trail, along River Road between the Penn Street Bridge and the Buttonwood Bridge. Nick designed new vehicular medians, a trail separation median, and ADA compliant curb ramps, along with signs and pavement markings on River Road. Pulling together multiple phases and resources including field survey, preliminary design, final design, permitting, and technical specifications were all involved in the successfulness of this project.

I assist municipalities to maintain infrastructure through design, and review development plans for engineering compliance.



Nick
Szeredai, PE

Spillman Farmer Architects Bethlehem Plaza Renovation

Justin was part of the team providing mechanical, electrical, and plumbing engineering design associated with renovations to Bethlehem Plaza. The project involved a new double shaft elevator, interior and exterior lighting, new diffusers, and plumbing for new public restrooms. His part of the project included investigation and documentation of existing systems. He also designed the domestic water and sanitary waste systems for the new renovations as well as some of the HVAC and fire protection.

mechanical engineering

Whether renovating or constructing, I'll design the plumbing, HVAC, fire protection, and more for your building.

Justin
Folk



City of Bethlehem
Risk and Resilience
Assessment and Emergency
Response Plan Update

Josh is part of the team that is conducting a Risk and Resilience Assessment of the City's water system to determine vulnerabilities and to evaluate potential improvements to enhance security and resilience of the system. The team is utilizing quantitative risk and resiliency metrics, asset prioritization and will assess the water system's interdependencies. SSM will update the existing Emergency Response Plan in conjunction with the City's management, based on the findings of the completed Assessment.

water and wastewater engineering

I help water and wastewater systems comply with environmental regulations in order to ensure our drinking water and water resources are safe and clean.

Josh
James, EIT



structural engineering

Morgan Corporation Loading Certification

Jon has provided structural engineering services to Morgan Corporation at various plants.

MCA Mezzanine | Provided loading certification for mezzanine to support parts during painting at the Riverside, California Plant.

Ohio Paint Track | Provided loading certification for a paint track to support parts as they traversed paint booths at the Ohio Plant.

Ohio Reefer Mezzanine | Provided loading certification for mezzanine to support parts for refrigerated equipment during painting at the Ohio Plant.

I ensure our clients' structures are safe, stable, economical, and meet codes. I also provide advice to clients to meet those ends.



Kramer Marks Architects Duffy School Apartments

When the Marcella L. Duffy School was established as Florence School No. 1 in the 1870s, the 4-room classroom building was the first public school in the community. This project involved the development of 53 units of affordable, senior housing. The project emphasized the adaptive reuse and rehabilitation of the Duffy School into an apartment building featuring historic renovation and revitalization of the former school, completed in 1924, plus new amenities for today's lifestyle. The sustainable design features of this project satisfy the standards of New Jersey's ENERGY Efficient Homes and USGBC LEED® for Homes programs.

structural engineering

*I design the bones of a building
so that people feel safe.*



Jeff
Thoms, PE

electrical engineering

First Energy Easton Electrical Equipment Replacement

FirstEnergy replaced their existing switchboard and panelboards throughout their Easton facility. Chris' responsibility included site survey to document and dimension existing electrical equipment, specifying new switchboard, and panelboards.

I design electrical systems to make sure equipment is properly powered and controlled.

Chris
Colvin, EIT



Muhlenberg Township Authority South Temple Pumping Station

Bill served as the Construction Engineer for the project, assisting with issuing the bid documents and specifications for construction. After the project was awarded he provided construction administrative services that included review of shop drawings provided by the contractor, responding to contractor Requests for Information, conducting progress meetings and review of contractor applications for payment. He also provided construction observation throughout the demolition and construction process and provided project closeout services, including initial Punch List Site Visit and preparation/issuance of formal Punch List Notification, and final Punch List Inspection documentation and project close out with Client and contractor.

water and wastewater engineering

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- Water and Wastewater Engineering
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Electrical Engineer with 5-7 years in the design of electrical systems in industrial, commercial, and R&D type facilities. Responsibilities include electrical design and electrical studies, proposal preparation, and client and project management.

Structural Engineer to assist our clients in the industrial, healthcare, higher education, research, and municipal markets.

Director of Water and Wastewater Engineering ready to make an immediate impact. The team's projects are focused on water distribution, wastewater collection, treatment plant operations, treatment of drinking water, wastewater management. Responsibilities of the position include managing and overseeing all teams and projects in the department, ensuring that work is executed on time, on budget, and delivered to client expectations.

Senior Water Engineer to work with our engineering staff to support our existing and future work in the water, water resources, and wastewater engineering markets on projects such as municipal treatment facilities, distribution systems, collection systems, sanitary and storm sewers and storm water.

Project Manager with deep engineering and technical qualifications, combined with a successful, proven track record for running large, multi-discipline projects. The role is responsible for effectively executing multi-discipline projects and managing personnel resources. This includes managing multiple, simultaneous projects for high-paced design, permitting, construction and consulting engagements.

AutoCAD/REVIT Drafter to prepare detailed drawings of the architectural, structural and MEP features of buildings.

Survey Technician to operate all field surveying instruments, including robotic survey instruments, GPS surveying instruments, and auto-levels.

Survey Crew Chief to perform all aspects of site and boundary reconnaissance, construction stakeout, and boundary, topographic, roadway and as-built surveys, ultimately turning that field data into AutoCAD drawings.

Construction Project Representative to join our growing team in our West Chester Office. . As a Construction Project Representative you will inspect structures and infrastructure using engineering skills to determine structural soundness and compliance with plans and specifications and other regulations.