



How Technology Is Reshaping Construction

By Kendall Jones

What do a pickup truck, a nail gun, a portable circular saw, a cement mixer truck, and a modern hydraulic excavator all have in common? The obvious answer is that they are all tools and equipment commonly found on construction sites today. Another correct answer would be that they are all pieces of technology that didn't exist a hundred years ago.

Imagine what the jobsite would be like today without technology. Without power tools, we'd be hand cutting boards and drilling holes. Without heavy equipment, laborers would be excavating sites and digging trenches with shovels and pickaxes. Without elevators, buildings would only be a few stories tall.

The point is, technological advancements have always driven construction forward, so it's odd that so many companies are slow to adopt new tech. We're able to build stronger, taller, and more energy efficient structures. Technology has made construction sites safer and workers more efficient. It has allowed us to increase productivity, improve collaboration, and tackle more complex projects. Today, new

technologies in construction are being developed at a breakneck pace. What seemed like future tech ten, twenty years ago—like connected equipment and tools, telematics, mobile apps, autonomous heavy equipment, drones, robots, augmented and virtual reality, and 3D printed buildings—are here and being deployed and used on jobsites across the world.

And, while construction firms continue to underinvest in technology, venture capitalists are betting big on the future of construction tech. A report from James Long LaSalle, Inc., released earlier this year, shows that venture capital firms invested \$1.05 billion in global contech startups during the first half of 2018. That's a nearly thirty percent increase over the amount invested for all of 2017. Since 2009, investors have closed 478 funding deals totaling \$4.34 billion.

Here's a look at some of the major areas where technology is impacting and improving the construction industry.



flat for decades. The traditional design-bid-build method makes construction disjointed and siloed. Every construction site is different, presenting its own unique set of challenges and risks. This makes it difficult to streamline processes and increase

Productivity
According to research from McKinsey and Company, construction productivity has remained

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THE PORT AUTHORITY OF NY & NJ

REQUEST FOR PRE-QUALIFICATIONS

Sealed pre-qualification responses for the following contract(s) will be accepted at the address indicated below until **2:00 pm** on the due date indicated. **Send bids to:** The Port Authority of NJ & NJ, Attn: Bid/RFP custodian procurement department, 4 world trade center, 150 Greenwich Street, 21st Floor, New York, NY 10007.

SOLICITATION #: 55570

TITLE: Request for Pre-Qualifications (RFPQ) to Generate a Pool of Qualified Vendors for Receipt of The Port Authority Of New York and New Jersey's Information Technology Managed Services Provider Solicitation.

DESCRIPTION: The Port Authority is seeking to prequalify firms to provide IT Managed Services for end-user, desktop, server and storage, database, and cloud support, as well as recommending and implementing a cloud-based IT Service Management (ITSM) solution to be used as the backbone for all required services.

RFPQ DUE DATE: 1/10/2019

The Port Authority of New York and New Jersey (Port Authority), in accordance with the provisions of Title VI of the Civil Rights Act of 1964 (78 Stat. 252, 42 U.S.C. §§ 2000d to 2000d-4) and the Regulations, hereby notifies all bidders that it will affirmatively ensure that any contract entered into pursuant to this advertisement, disadvantaged business enterprises will be afforded full and fair opportunity to submit bids in response to this invitation and will not be discriminated against on the grounds of race, color, or national origin in consideration for an award.

Additionally, all bidders (including proposers, and respondents, as applicable) are notified that the Port Authority will ensure that, with respect to any contract/agreement entered into pursuant to this advertisement, disadvantaged business enterprises, minority business enterprises and woman-owned business enterprises, as applicable, will be afforded full and fair opportunity to submit bids, proposals and responses, as applicable, in response to this invitation, and will not be discriminated against on the grounds of race, color, or national origin in consideration for an award.

This document is available on-line at <http://www.panynj.gov/business-opportunities/bid-proposal-advertisements.html?tabnum=5>. Addenda to the RFPQ, if any, will be posted at this website. Monitor the advertisement on the website to ensure your awareness of any changes. If you have any technical problems accessing the documents online, email us ataskforbids@panynj.gov or call us at (212) 435-4600 for assistance.

A VALID PHOTO ID IS REQUIRED TO GAIN ACCESS INTO THE BUILDING, IF YOU ARE HAND DELIVERING AND/OR ATTENDING THE BID OPENING.

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LENLEASE TURNER
A Joint Venture

Lendlease Turner Joint Venture is seeking MWBE & SDVOB firms for subcontracting opportunities on the

Jacob K. Javits Convention Center Expansion Project

Owner: New York Convention Center Operating Corporation (New York, NY)

The Lendlease Turner Joint Venture (LLTJV) will construct 1.2 million additional square feet of space expanding the nation's busiest convention center. The LLTJV team is reaching out to New York State certified MWBE-SDVOB firms to cultivate significant participation on the project.

How To Get Involved:
LLTJV@moderntimesinc.com issues Notice of Interest (NOI) emails to all Lendlease Turner registered vendors notifying them of upcoming 1st tier opportunities on the project. Firms respond by clicking through the NOI to the opportunities that match scopes of work they perform.

To Register as a Vendor with Lendlease Turner JV:
Note : All NYS Empire State Development certified MWBE/SDVOB vendors are already registered with LLTJV. Please contact us if your firm is not currently receiving LLTJV Notices of Interest by sending a note to: LLTJV@moderntimesinc.com

Get or Update Your Empire State Development MWBE & SDVOB Certificate:
LLTJV seeks Empire State Development certified firms for every 1st Tier Subcontract Opportunity.

Seeking to be certified or re-certified? Visit <https://esd.ny.gov/mwbe-new-certification> to learn more about eligibility, requirements, and how to get started.
Have a question about certification?
Call the Empire State Development MWBE Hotline: (212) 803-2414

To get in touch, please contact: **LLTJV@MODERTIMESINC.COM**

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IS SOLICITING COST PROPOSALS FROM NEW YORK STATE CERTIFIED MWBE AND SDVOB SUBCONTRACTORS/VENDORS FOR THE FOLLOWING JOBS

Reconstruction and Improvement of Rikers Island North and South Pumping Stations
NYC DEP Contract No. PS-RI-N&S (NYS MWBE)
Bid Date: December 20, 2018

Line Structural Component Repair Program—Canarsie Line
MTA NYCT Contract No. C-48719 (NYS MWBE, SDVOB)
Bid Date: December 18, 2018

PS-RI-N&S, Reconstruction and Improvement of Rikers Island North and South Pumping Stations (NYS MWBE):
Description of Project: This project includes several items of work to reconstruct and improve the Rikers Island North and South Pumping Stations. These include but are not limited to structural demolition, excavation, SOE, concrete, structural modifications, mechanical, electrical, instrumentation and controls, and minor architectural work.

C-48719, Line Structural Component Repair Program—Canarsie Line (NYS MWBE, SDVOB):
Description of Project: This project is to repair the structural steel and concrete defects in the subway tunnel between First Avenue Station and Eighth Avenue Station in Manhattan. Additional station component repairs for Sixth Avenue Station, Canarsie Line, in the Borough of Manhattan are also included.

Many bidding opportunities available.

If you are interested in bidding on these projects, please contact Skanska's Outreach Coordinator: Julia.Omanoff@skanska.com • EOE/M/F/Vet/Disabled

NORTHEAST EVENTS FOR YOUR BUSINESS

2018

WOSB Certification
Thursday, December 13, 2018, 10:00 am–12:00 pm
SoBro Organization, 555 Bergen Avenue, Third Floor, Bronx, NY
Main Sponsor(s): US Small Business Administration, SoBro Organization
Contact: Jennifer Krottinger, 212-264-9487, jennifer.krottinger@sba.gov
Fee: Free; registration required
The federal government spends \$500 billion per year on goods and services. Does your company capture any of this business? This seminar is geared toward assisting socially and economically disadvantaged businesses, as well as small businesses located in Historically Underutilized Business (HUB) zones and those defined as Woman-Owned Small Businesses (WOSBs). Participants will better understand how to position themselves to do business with the federal government. Join us to learn more about the certification process and how your business can benefit from this amazing opportunity. The US Small Business Administration is an independent agency of the federal government, established to help small businesses start, grow, and succeed.

8(a) Business Development Program—Is Your Business SBA Certified?
Thursday, December 20, 2018, 10:00 am–11:30 am
Thomas P. O'Neill Jr. Federal Building, 10 Causeway Street, Room 265, Boston, MA

Main Sponsor(s): US Small Business Administration
Contact: Pauline Swanson, 617-565-5564, pauline.swanson@sba.gov
Fee: Free; registration required
Government agencies reserve contracts for small businesses that are certified in the SBA's contracting programs. This free workshop will discuss various program benefits. Learn about how to: compete for set-aside contracts in the program; get a Business Opportunity Specialist to help navigate federal contracting; form joint ventures with established businesses through a mentor-protégé program; receive management and technical assistance, including business training, counseling, marketing assistance, and high level executive development. Learn more by joining this or other upcoming workshops.

How SBA Can Help You Start or Grow Your Small Business and How to Register Your Business Online
Thursday, January 3, 2019, 9:00 am–10:30 am
New Hampshire Secretary of State's Office, 25 Capital Street, Third Floor, Concord, NH
Main Sponsor(s): US Small Business Administration, New Hampshire Secretary of State Corporation Division
Contact: Miguel Moralez, 603-225-1601, miguel.moralez@sba.gov
Fee: Free; registration required
Join us in the capital city and hear from a Small Business Administration representative about the technical and financial resources available to help you start and grow your small business. The New Hampshire Secretary of State Corporation Division will walk you through registering a business online. This FREE workshop is held on the first Thursday of every month from 9:00 am to 10:30 am.

