



# Technologies Revolutionizing Construction

By Andrew Miller, Dakota Safety

Technology is changing the world. Almost every single thing we touch on a daily basis has been influenced by technology. Our cell phones, the tiny computers we keep in our pockets, have 100,000 times the speed of an early personal computer.

Our homes are "smart." If someone rings our doorbell, we can see and talk to them from our desk at work. We can tell Alexa or Google Home to play music without lifting a finger, and we'll have access to millions of songs.

We're getting to the point where soon we won't even have to drive our cars anymore. Driverless cars aren't a matter of "if" anymore, but a matter of "when." We're already started to phase out the need for gasoline, with countries and companies alike pledging to commit to electric vehicles, phasing out the demand for fossil fuels.

Machines are predicted to take 800 million jobs by 2030. What people will do after machines have those jobs is another story for another article.

There is one industry in particular that's known for its hard work, sweat, and manual labor. Working from sun up to sun down, getting dirty, getting tired, but getting the job done. When you picture the construction industry, I bet you don't imagine a computer or any type of technology. I bet the first thing that pops into your head is a rugged construction worker wearing a construction hat, holding a hammer, covered in dust and dirt with a five o'clock shadow. There's nothing technological about that.

But cutting edge technology has indeed been used in the construction industry for many years, particularly in the design phase (using models prior to construction for locating conflicts is an industry standard).

Now the construction industry is embracing new, revolutionary technologies in the building side of things as well. Considered the "final frontier" for technological breakthroughs, construction companies are joining the rest of the world in the new age of technology. And as an industry that added 282,000 new jobs just last year, there will be plenty of people to use the technology.



**Autodesk hops on the construction bandwagon**  
 Autodesk calls itself the software company for people who make things. Sounds like a perfect fit for construction companies, right? Autodesk makes software that enables people to create everything

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## Sub-Bid Requests

**GREEN LINE EXTENSION PROJECT**

**SEEKING DBE FIRMS FOR SUBCONTRACTING OPPORTUNITIES**

**REGISTER NOW**

**GLX CONSTRUCTORS**

GLXC IS WILLING TO ASSIST DBE SUBCONTRACTORS AND SUPPLIERS IN OBTAINING ACCESS TO BONDS, LINES OF CREDIT AND INSURANCE.

FOR REQUESTS OR ASSISTANCE:  
 Alexandra.Cann@GLXConstruct.com

**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@MODERNTIMESINC.COM**

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**IS SOLICITING BIDS FROM MWBE SUBCONTRACTORS AND SUPPLIERS**

**Walt Whitman Bridge Suspended Span Link Replacement—Phase I**  
 Delaware River Port Authority Contract No: WW-29-2018  
 Bid Date: March 28, 2019

Subcontracting opportunities include but are not limited to Field Office, CPM Scheduling, Civil General Contracting, Construction Engineering, Fencing, Fuel, Haul and Dispose, MPT, Office Trailer Fit Out, Painting, Signs, Structural Steel, Surveying, and Trucking. Please see contract documents for further opportunities.

Interested firms please contact [john.papagiannakis@skanska.com](mailto:john.papagiannakis@skanska.com) • EOE/M/F/Vet/Disabled

**Tutor Perini**  
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**TUTOR PERINI CORPORATION, AN EEO EMPLOYER**

**IS CURRENTLY SOLICITING COST PROPOSALS FROM QUALIFIED AND CERTIFIED MWBE SUBCONTRACTORS, VENDORS, SERVICE PROVIDERS**

**CBTC 8th Avenue Line (59th Street to High Street) "B" Division (IND) Project in the Boroughs of Manhattan and Brooklyn**  
 MTA NYCT Contract No: S-48006  
 Bid Date: April 25, 2019

ALL QUOTATIONS ARE DUE BY CLOSE OF BUSINESS Friday, April 19, 2019.  
 For further information concerning subcontracting and/or purchasing opportunities, and to register as a subcontractor or vendor, please respond to [solicitations@tutorperini.com](mailto:solicitations@tutorperini.com) or contact Jackie Cotto at 914-739-1908. Come and join our team!

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**IS SOLICITING COST PROPOSALS FROM NEW YORK AND NEW JERSEY STATE CERTIFIED DBEM/WBE SUBCONTRACTORS AND VENDORS**

**Replacement of Existing Substation Number 8 and Replacement of Existing Substation Number 14**  
 PANYNJ Contract Nos. PAT-773.216 and PAT-773.217  
 Bid Date: March 28, 2019

**PAT-773.216, Replacement of Existing Substation Number 8:**  
**Description of Project:** Located in Kearny, New Jersey (adjacent to Frank Rodgers Boulevard). Construct a new two-story steel-framed building for the new substation and related exterior stairs and platforms. Furnish, install, and commission two new heavy-duty traction power transformer/rectifier units and DC switchgear; SCADA system, SONET equipment, and security/access control. Furnish, install an auxiliary power system, HVAC, plumbing/fire protection, fire alarm, and lighting systems, compressor plant, and sub-surface utilities from PSE&G manhole to the new substation. Perform all site work and obtain all permits. De-energize, decommission, and demolish the existing Substation Number 8.

**PAT-773.217, Replacement of Existing Substation Number 14:**  
**Description of Project:** Located at the PATH Harrison Car Maintenance Facility in Harrison, New Jersey. Construct a new two-story steel-framed extension to the existing substation. Perform phased decommissioning and removal of existing substation equipment following the installation and commissioning of new replacement substation equipment. Furnish, install, and commission two new heavy-duty traction power transformer/rectifier units, SCADA system, SONET equipment, and security/access control. Furnish, install, and commission auxiliary power system, HVAC, plumbing/fire protection, fire alarm, and lighting systems. Furnish and install sub-surface utilities such as electric service, water, and storm water under active streets, sidewalks, and railroads. Perform all site work and obtain all necessary approvals and permits

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

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

**Line Structural Component Repair Program—Canarsie Line**  
 MTA NYCT Contract No. C-48719 (NYS MWBE, SDVOB)  
 Bid Date: March 28, 2019

**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 this project, please contact Skanska's Outreach Coordinator: [Julia.Omanoff@skanska.com](mailto:Julia.Omanoff@skanska.com) • EOE/M/F/Vet/Disabled

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**IS SOLICITING COST PROPOSALS FROM NEW YORK STATE CERTIFIED MWBE AND SDVOB SUBCONTRACTORS AND VENDORS**

**ADA Sixth Avenue Canarsie Line**  
 MTA NYCT Contract No. A-37150A  
 Bid Date: ON HOLD

**Description of Project:** Accessibility Upgrades at Sixth Avenue Station on the Canarsie Line (BMT) in the Borough of Manhattan—make the station accessible by complying with the 2010 Americans Disabilities Act Standards for Accessible Design, enhance customer experience at the station, make the station easier to navigate, and facilitate increased ridership on the NYCT System.

**Bidding Opportunities:** electrical work, communications work (CCTV, cameras, monitors, network, fire alarm), HVAC, plumbing, fire protection, elevators, structural steel, railings, asbestos abatement, acoustical tile ceilings, lighting, tile, masonry, glazing, stair treads, stainless steel doors, gypsum board, painting, concrete, rebar, station signage, dewatering, rodent control, abatement of bird droppings, dumpsters, office cleaning, progress photographs, engineer's office computers/equipment/furniture.

If you are interested in bidding on this project, please contact Skanska's Outreach Coordinator: [Julia.Omanoff@skanska.com](mailto:Julia.Omanoff@skanska.com) • EOE/M/F/Vet/Disabled

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**2019**

**Five Most Important Questions That a Business Owner Should Be Able to Answer**  
 Tuesday, March 19, 2019, 6:00 pm–8:00 pm  
 Derry Municipal Center, 14 Manning Street, Derry, NH  
 Main Sponsor(s): SCORE Merrimack Valley  
 Contact: Tony Ferreira, 603-432-6156, [info199@scorevolunteer.org](mailto:info199@scorevolunteer.org)  
 Fee: Free; registration required

Owning and operating a small business can be very rewarding, but it also requires a lot of work and a well thought out plan. In this first workshop, you'll learn the most important questions that every small business owner should be able to answer to ensure that their venture will be successful. We won't give you the answer. That will be up to you. We will give you information and tools necessary to answer those questions yourself. Come join us for what will be a very informative and interactive workshop. SCORE is a resource partner of the US Small Business Administration (SBA). SCORE Merrimack Valley mentors provide free services and workshops.

**How to Do Business with the Federal Government and Marketing to the Federal Government**  
 Wednesday, March 20, 2019, 1:00 pm–4:00 pm  
 Willingboro Public Library, 220 Willingboro Parkway, Willingboro (Town) Center, Willingboro, NJ  
 Main Sponsor(s): US Small Business Administration, Willingboro Public Library  
 Contact: Willingboro Public Library, 609-877-6668  
 Fee: Free; registration required

The United States federal government is the largest buyer of goods and services in the world. The number of steps a small business needs to take to get started selling in government contracting can seem daunting. Join Peter Susberich and Janet Peralta-Torres from the US Small Business Administration and let them educate you on how to market and sell to the government. Learn the types of products and services it procures and how to tell if the government is buying what your business is selling. Register at the library reference desk starting March 6. The SBA exists to help Americans start, build, and grow businesses.

**Explore Small Business Administration Resources**  
 Tuesday, April 9, 2019, 11:00 am–1:00 pm  
 Center for Women and Enterprise Eastern Massachusetts, 24 School Street, Suite 700, Boston, MA  
 Main Sponsor(s): US Small Business Administration, Center for Women and Enterprise (CWE) Eastern Massachusetts  
 Contact: Edwidge Lafleur, 617-532-0254, [ELafleur@cweonline.org](mailto:ELafleur@cweonline.org)  
 Fee: Free; registration required

This workshop is presented by a member of the local US Small Business Administration (SBA) team and is designed to help entrepreneurs understand the various SBA programs and services available to help them start or expand a business. Topics covered include: Technical Assistance Program; SBA Loan Guarantee Program; 8(a) Business Development Program; HUBZone (Historically Underutilized Business Zones) Program; Government Contracting Opportunities. CWE provides opportunities for women entrepreneurs and women in business to increase professional success, personal growth, and financial independence.

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