

 NEWS INFO

BIDS



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Digital Infrastructure: Built by Volunteers

By Michael Brennan

The next time you drive over a bridge, imagine if its maintenance depended on the efforts of a single volunteer. Its structure, safety, and general upkeep would hinge on this one person's availability to check the screws, examine the steel for signs of fatigue, and give the bridge a fresh coat of paint. Absurd, right? If we maintained our bridges, roads, and other physical infrastructure this way, we couldn't really rely on them. They would fail and endanger us regularly—and who knows how

long adequate repairs might take? It sounds crazy in the context of physical infrastructure, but many people don't know that this is how much of our critical digital infrastructure is maintained. The infrastructure we rely on every day to make sure our digital clocks are in sync or to protect our credit card information when we shop online is often maintained by a single volunteer. This means that often, just one person makes sure that the essential software code that powers so many

of the products and services we use every day runs smoothly.

This is because the same free software code is used for the critical components in many different kinds of software: No one person "owns" it. This enables innovation, because everyone can build off what has come before, and makes it possible for more technology to be created at a lower cost, because no one needs to start from scratch. But this free, public code—which we refer to as open source software—needs regular upkeep and maintenance, just as physical infrastructure does, and because it doesn't belong to any one person or party, it is no one person's job to maintain it. Without maintenance, we see the digital equivalent of a crumbling road or a collapsing bridge. Some people call this phenomenon a "tragedy of the commons."

How we rely on digital infrastructure—and what happens when we can't

In 2013, a critical security flaw was discovered in an obscure website called RubyGems, which manages some of the freely available code that



companies like Twitter, Hulu, and Airbnb rely on anytime they want to update their code. RubyGems enables everything from small design tweaks to managing e-commerce. The security flaw was first noticed during a normal workday, but it could not be

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IS SOLICITING BIDS FROM MWBE SUBCONTRACTORS AND SUPPLIERS CERTIFIED WITH THE PORT AUTHORITY OF NEW YORK AND NEW JERSEY Rehabilitation of the 178th and 179th Street Ramps, Bus Ramps, and Bus Turnaround PANYNJ Contract No: 244.042 Bid Date: August 22, 2017

Subcontracting opportunities include but are not limited to asbestos removal, borings, concrete, demolition, electrical, engineering, fence and guardrails, hazardous materials haul and dispose, inspection and testing, landscaping, miscellaneous metals, pavement striping, pile driving, plumbing, rigging, saw cutting, scaffolding, sign erection, structural steel erection and fabrication, trucking, and welding. Please see contract documents for further opportunities.

Interested firms please contact John Papagiannakis at Skanska Koch Inc., john.papagiannakis@skanska.com

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IS SOLICITING COST PROPOSALS FROM NEW YORK STATE CERTIFIED M/WBE AND SDVOB SUBCONTRACTORS/VENDORS FOR THE

Long Island Railroad Expansion Project from Floral Park to Hicksville MTA LIRR Contract No. 6240 Bid Date: August 10, 2017 **Description of project:**

The LIRR Expansion Project from Floral Park to Hicksville is a strategic component in Governor

Andrew Cuomo's comprehensive plan to transform New York's vital transportation infrastructure while improving the economy, environment, and future of Long Island. The Expansion is decades in the making. Residents and commuters along the Main Line corridor have long sought a mass transit solution to reduce congestion, improve safety and the environment, and provide an appealing alternative to driving, with minimal disruption to existing services and without residential property takings. The new plan includes construction of a 9.8 mile third track between the Floral Park and Hicksville stations, the elimination of 7 grade crossings to improve safety and reduce road traffic, and upgrades to infrastructure, stations, and parking along the route. Subcontracting opportunities include, but are not limited to:

Civil Work, Professional Services, Mechanical Work, Architectural Work, Metals, Electrical

Work, and Design Services.

If you are interested in bidding on this project, please contact: info@skanskakiewitposillico.com

EVENTS FOR YOUR BUSINESS or less, that outlines an idea you have for a



Rivier University, The Learning Commons, 420 South Main Street, 2 Robinson Road, Nashua, NH Main Sponsor(s): Small Business Administration Contact: Kimberly Mace, kimberly.mace@sba.gov Fee: Free; registration required Join Nashua-area small business owners for a conversation with the acting Small Business Administration national ombudsman and

assistant administrator for regulatory enforcement fairness, along with other regional and local SBA officials. Learn how the SBA's Office of the National Ombudsman and other federal partners can help your small business save time and money resolving complex regulatory compliance and enforcement issues. Provide real-time input on regulatory fairness issues impacting your small business, and discuss ways the federal government can help small businesses to grow and thrive. To RVSP, please pre-register at https://nhroundtablesba.eventbrite.com **Developing a Great Elevator Pitch** Tuesday, August 8, 2017, 6:00 pm-8:00 pm

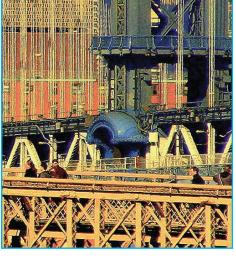
Boston Public Library, 700 Boylston Street, Commonwealth Salon, Boston, MA Main Sponsor(s): SCORE Boston Contact: Laura Colcord, Kris Polito, 617-565-5591, workshops@scoreboston.org Fee: Free; registration required An elevator pitch is a brief speech, one minute

product, service, or project. This workshop will cover the meaning of an elevator pitch, why it is important to your business, what you want to communicate about your business, defining who your audience is, promoting your value proposition, how you can generate a call to action, and what the short "commercial" looks like. The workshop will also include breakout time to allow participants the chance to create and present their own elevator pitches.

Meet the Lenders Thursday, August 10, 2017, 9:30 am-12:30 pm

Kean University (Barnes and Noble in lobby), 1040 Morris Avenue at Green Lane, Room 306, park in rear of building, Union, NJ Main Sponsor(s): Small Business Administration, New Jersey Small Business Development Center Contact: NJSBDC 908-737-4220, Claudia Yarborough 973-645-3572, claudia.yarborough@sba.gov Fee: Free; registration required This program will provide small business owners with the opportunity to meet one-on-one with

SBA's top lenders to discuss the availability of SBA guaranteed loans by their institutions. Find out firsthand what lenders look for in a winning loan proposal, how to increase your likelihood of getting a loan, and how to get through the loan application process. To make the best use of your time and to ensure that your loan proposal gets the highest possible consideration, we encourage you to prepare a business plan and bring many copies with you. To obtain the Business Plan Executive Summary Form, call the Kean NJSBDC at 908-737-4220 or visit www.sbdckean.com. You are also encouraged to bring a current credit report.





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