PPSF Application

- Organization: City of New Haven Engineering Department

- Full street address of organization: 200 Orange St, 5th floor, New Haven, CT 06510

- Website: www.cityofnewhaven.com

- Name and title of person who will be the Fellow’s direct supervisor (the supervisor must be available to supervise Fellow on a daily basis): Dawn Henning, Project Manager

- Phone number and e-mail address of proposed direct supervisor: dhenning@newhavenct.gov, (203) 946-8101

- Placement dates (8-11 weeks between Tuesday, May 29 and Friday, August 10, 2018):

- Are placement dates flexible? If so, please describe: Dates are flexible and can be any of the above

- Proposed work schedule (placements should be equivalent to full-time and not more than 37.5 hours/week): Monday-Friday 9-5 with 1 hour lunch for 35 hrs/wk

- Organization description (mission statement, population served. 150 words or less.):

  The City’s Engineering Department designs, constructs, and maintains public infrastructure for the entire City including bridges, roads, sidewalks, drainage systems, coastal protection, and street lighting. The work includes public outreach, project concept development, engineering design, mapping, construction management, infrastructure inspection, and asset management.

- Please write a 1-2 sentence summary of the work that the Fellow would be conducting (50 words or less. This will be used as your agency’s project description summary on the PPSF website, so please be succinct):

  The Fellow would be assisting on the implementation of the City’s Downtown Green Infrastructure Project. The City has currently constructed over 60 new bioswales
downtown and will be building another 120 more! Tasks could include assisting with design, surveying and siting, mapping, construction oversight, and outreach.

- Please write a complete description of the specific project you propose and list the duties/outcomes expected of the Fellow. *(Suggested length: one to two pages.)*

The City experiences frequent flooding at several locations downtown during high intensity, short duration rainfall events. These locations- Route 34, Union Avenue, and Temple Street- are not only crucial to the functioning of the City but support regional transportation systems as well. In addition, coastal storm surge threatens residences and businesses along the East Shore and Long Wharf. In response, the City is designing and implementing projects to address these flooding issues including using green stormwater and coastal infrastructure.

Green infrastructure refers to an approach to water management that protects, restores, and mimics nature-based systems. Green infrastructure offers multiple benefits over traditional storm drains and pipes including improved water and air quality, aesthetics, and biodiversity. Bioswales are a type of vegetated green infrastructure that can be installed in the public right of way to capture stormwater from the City’s streets. A bioswale is essentially an engineered rain garden designed to capture, filter, and infiltrate stormwater runoff from the City’s streets, relieving the storm sewer system and preventing flooding.

The Yale Fellow would be working directly with the Project Manager on this Downtown Green Infrastructure Project. The City will be installing up to 200 of these bioswales throughout downtown with over 60 installations already complete. The Fellow’s work would include assisting on all aspects of the project including design, surveying and siting, mapping, construction oversight, and outreach. Field work, as well as office work, will be required. The Fellow will get to see the project from design through construction as many bioswales will be built throughout the summer. Come be a part of this exciting, innovative project!

Additionally, the Fellow will be exposed to other related projects underway in the Engineering Department including living shoreline design and implementation, storm sewer modeling and drainage design, trail design and implementation, and more.

- Specific skills/experience required for the project *(please list):*
Preferred but not required experience in a technical/analytical field, environmental interest, GIS skills. Willingness to work in the field as well as the office.

- Additional requirements (e.g. a car or weekend working hours). If a car is required, please include information regarding parking arrangements and mileage reimbursement): No additional requirements

- Briefly describe the work that Yale PPSF Fellows have done with your agency in the past and present. If you have not worked with Yale Fellows, please describe any work that Yale students have done with your agency.

Last summer, the Engineering Department hosted a PPSF Fellow that worked on implementation of the City’s Climate and Sustainability Framework. This Fellow took the lead on documenting the City’s progress through the Sustainable CT platform, resulting in the City of New Haven becoming 1 of 22 certified municipalities in the state. We were very pleased with the initiative and enthusiasm displayed by our Fellow and look forward to working with another Fellow this summer!

Completed proposals must be e-mailed to ppsf@yale.edu by Friday, November 10, 2017 at 5pm

Questions? Call the Yale Office of New Haven and State Affairs: (203) 432-8412