Proposal for In-Person Fellowship Placement • Summer 2022

If conditions allow, PPSF will offer in-person fellowships in the summer of 2022. In the event that in-person summer placements are not approved by Yale University, prospective sites will be notified and asked to modify proposals to reflect remote work.

• Organization:
  City of New Haven

• Organization’s street address:
  200 Orange Street, New Haven, CT

• Website:
  www.NewHavenCt.gov

• Name and title of person who will be the Fellow’s direct supervisor:
  Katherine Jacobs, Chief Landscape Architect

• Phone number and e-mail address of proposed direct supervisor:
  472-227-1521
  kjJacobs@newhavenct.gov

• Placement dates:
  11 weeks beginning Tuesday, May 31

• Are placement dates flexible? If so, please describe:
  Yes, we can modify start and end dates to accommodate fellow's schedule

• Proposed work schedule:
  Monday-Friday 9am-5pm (with 1 hour lunch break)

Placement Description

• Organization description:
  The City of New Haven provides services to a population of 134,023, with 72% of that population being people of color, and with 53% of the City's households being cost-burdened. The City enjoys a wealth of natural and cultural resources, yet it continues to struggle with the legacy of redlining, white flight, and disinvestment that is undeniably still visible in its public realm. City staff is working hand-in-hand with community advocates to improve the quality of life for everyone in New Haven, with particular attention to areas most impacted by the racist actions of former civic leaders.
• **Write a 1-2 sentence summary of the proposed work for a summer 2022 Fellow:**

One Fellow will conduct in-depth research and analysis of materials used by the City of New Haven's Engineering Department. This research will identify opportunities for reducing the embodied greenhouse gas emissions associated with our material and product choices.

• **Write a more complete description of the specific project you propose and list the duties/outcomes expected of the Fellow.**

In the process of building new community amenities and renovating existing resources, New Haven's Engineering Department uses a variety of products and materials. For example, a given project may include concrete, rebar, decorative stone, plants, paint, signage, and site lighting. Each product and material choice inherently comes with upstream and downstream impacts, and recent advances in material technology are creating new opportunities to reduce the negative impacts of our work.

The Fellow will be provided with a list of materials and products most frequently used by the Engineering Department. The fellow will start by becoming familiar with the currently-used products, how they are used, how much they cost, and their associated greenhouse gas emissions. Based on this background information, the fellow will proceed to identify alternatives with lower emissions. The fellow will compare the emissions, cost, and durability of the traditional product with the lower-emission alternative. To confirm the commercial availability of each product, the fellow will also identify 2-3 vendors that sell the product locally or online.

At the end of the program, the Fellow will present their research to the Engineering Department staff, including a quantitative head-to-head comparison of currently-used products with lower-emission alternatives. The goal of the program is to identify at least 5 lower-emission products that can be incorporated into our work in the coming year.

• **List specific skills/experience required for the project:**
  - Ability to independently formulate the task-oriented plan of action necessary to address the assigned research question.
  - Ability to self-motivate and stay on task.
  - Ability to succinctly communicate research findings.
  - Facility with internet research, Microsoft Word, and PowerPoint.

• **Additional requirements (e.g. a car or weekend working hours). If a car is required, include information regarding parking arrangements and mileage reimbursement):**

No car or weekend hours will be required.

• **Briefly describe the work that Yale PPSF Fellows have done with your organization in the past and present. If you have not worked with Yale Fellows, describe any work that Yale students have done with your organization.**
During the summers of 2018 and 2019, the Engineering Department hosted PPSF fellows that worked on the implementation of the City’s Climate and Sustainability Framework. The Fellows assisted us in achieving certification through the Sustainable CT platform, a voluntary certification program for CT municipalities. The City of New Haven was awarded Silver certification (the highest possible) in December 2019, achieving the most points of any certified community in the state. Building on that success, the Engineering Department worked with a PPSF fellow in 2021 to inventory the City’s greenhouse gas emissions, a critical step toward prioritizing our emissions reduction plans. We were very pleased with the initiative and enthusiasm displayed by our Fellows and look forward to working with another Fellow this summer!