

Yale University President's Public Service Fellowship
Summer 2021

Proposal for Fellow working remotely for organization

- Organization: City of New Haven Engineering Department
- Full street address of organization: 200 Orange St, 5th floor, New Haven, CT 06510
- Website: www.newhavenct.gov/engineering
- Name and title of person who will be the Fellow's direct supervisor: Dawn Henning, Assistant City Engineer
- Phone number and e-mail address of proposed direct supervisor:
dhenning@newhavenct.gov (203) 946-8101
- Placement dates: Flexible
- Are placement dates flexible? Are you able to accommodate a Fellow working in a different time zone?

Yes, dates are flexible and can accommodate different time zones.

- Proposed 37.5 hour per week work schedule:
9am to 5pm Mon- Friday with 1 hour lunch (35 hrs/week)
- Organization description:

The City of New Haven'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.

- **Write a 1-2 sentence summary of the work that the Fellow would be conducting:**

The City of New Haven seeks to update its Greenhouse Gas (GHG) inventory and explore options for electrification more broadly. The Fellow would work directly with the Assistant City Engineer and staff at ICLEI Local Governments for Sustainability to gather and analyze GHG data and conduct research on electrification options.

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

The City of New Haven released its Climate and Sustainability Framework in January 2018. The Framework defines six strategies- namely Electric Power, Buildings, Transportation, Materials Management, Food, and Land Use and Green Infrastructure- to tackle climate change and sustainability. Under each strategy are goals and actions that the City and its citizens can take to create a sustainable and resilient New Haven. This Framework references the Greenhouse Gas (GHG) inventory conducted in 2015.

The City would like to update its GHG inventory for the year 2020. New tools are available since the previous inventory was completed that simplify and standardize the process. The Fellow would work directly with the Assistant City Engineer and staff at ICLEI to explore the option of using these new tools to conduct the latest inventory. Further, the ICLEI GHG tool serves as a repository for GHG inventories and has functions that allow analysis between inventory years. Therefore, the City would like to enter previous inventories (at least from 2015 and 2009) into the tool along with developing a new inventory for 2020 and show trends across this timeframe.

In addition to the work on GHG inventories, the Fellow would be involved in research related to electrification options for the City. Electrification moves energy production off combustible sources such as oil and gas to rely on the power grid. This is good for climate change because as the power grid moves towards zero-carbon sources, the carbon footprint of electricity goes down. Therefore, the more we electrify, the more we reduce GHG emissions and mitigate climate change impacts. There are many options that the City can take to incentivize and implement electrification projects and the Fellow would be asked to research some of the most promising options.

The Fellow would be able to conduct the above work remotely if necessary. The GHG Inventory tool is internet-based and therefore accessible with login credentials which would be provided to the Fellow. Zoom will be used for remote meetings and check-ins. Any previous documentation will be provided to the Fellow electronically. And research can be conducted remotely.

This is a great opportunity for a Fellow interested in climate change mitigation and energy-related fields. This is an exciting time to get involved and we hope you will join us!

- List specific skills/experience required for this work:

No specific skill required but comfort with quantitative analysis and an interest in environmental/energy-field preferred.

- Equipment/resources you will provide to help Fellow conduct work:

The Fellow will be given a City email address to use and a city phone number (either desk or cell depending on working conditions).

- 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.
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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! We were very pleased with the initiative and enthusiasm displayed by our Fellows and look forward to working with another Fellow this summer!
