



PACIFIC INTERNATIONAL CENTER FOR HIGH TECHNOLOGY RESEARCH
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REQUEST FOR PROPOSAL POLLUTION MITIGATION & STORMWATER RUNOFF ABATEMENT SUBCONTRACTOR

Posting Date: December 29, 2024

Deadline for Receipt: January 24, 2025 – 2:00 p.m. HST

The Pacific International Center for High Technology Research (PICHTR) is seeking a subcontractor for Pollution Mitigation and Stormwater Runoff Abatement based on the scope of work as follows:

Baseline Hydrologic Mapping for Wai'anae Watershed - in partnership with the City and County of Honolulu DFM Green Stormwater Infrastructure Master Planning effort using using tools to: identify priority areas for climate adaptation; identify locations suitable for green stormwater infrastructure (GSI) practices, and lastly calculate baseline stormwater runoff flows and potential for reduction using green infrastructure practices on a parcel level.

The stormwater subcontractor will use the Green Infrastructure for Towns (GIFT) framework to identify priority areas for GSI (mapping accounts for flow path, regions of flooding, soils, impervious areas, demographics, heat islands, and fire zones). GIFT is an innovative GIS tool developed by Merck Labs to help communities enhance climate and stormwater resilience with detailed, parcel-level insights, integrating climate risk analysis with socio-economic factors, land use dynamics, and environmental data for a holistic approach. Hydrologic mapping is important for a location such as Wai'anae where there is not a lot of regular rainfall but is exposed to significant rain events, especially due to climate change, which must be managed to avoid destructive flooding and reduce pollutants from entering into streams and coastal waterways. Furthermore, such modeling is available to wealthier communities but not disadvantaged areas such as Wai'anae.

Detailed Flow Path mapping will be used to identify stormwater flow paths. The model outputs red, orange, yellow, and green flow paths where green and yellow areas are suitable for GSI retrofits and red and orange indicate high-velocity stormwater flows to not block to prevent flooding. Maps will also be used as a community engagement tool to help show where and how water moves through and around their properties and help to site GSI practices.

The Follow the Drop software will be used remotely to assess the priority areas identified from GIFT to calculate volumes of stormwater runoff and pollutants coming off the individual properties and the potential for capture or groundwater recharge should

optimally size green stormwater infrastructure be implemented. The stormwater subcontractor will undergo additional customization of the Follow the Drop under the project include: to (1) adding trees as a stormwater BMP and calculating and displaying their co-benefits (e.g. stormwater capture, reduced heat, carbon drawdown) coordinated with other City and County of Honolulu tree planting initiatives; (2) recommended list of native plants for GSI systems for Wai'anae; and (3) develop an 'ōlelo Hawai'i (Hawaiian language) version of the app.

In partnership with DFM, offer an in-person [NGICP](#) training for local contractors, community stormwater leaders, or others where participants are trained on how to conduct rainwater assessments on properties and use of [Follow the Drop](#) app, and following the graduation from the course, shadow the stormwater subcontractor staff on a minimum of (5) rainwater assessment to learn in the field how to identify GSI retrofit opportunities on properties and input data into the app.

Support the development of a communications and outreach plan led by the project team to inform the community of the "free" rainwater assessments and other offerings. Set up online signups for "free rainwater assessments" - Residential, commercial facilities and schools/nonprofits will sign up for assessments on rainwaterhawaii.com or a similar landing page. During the assessment the stormwater subcontractor staff and the members of the training will use the app to assess the current stormwater runoff conditions and identify and size optimum GSI projects for the property owner. The stormwater subcontractor will then survey the community on opportunities and barriers to getting their project installed to help link the community to available incentives for their projects and document projects for potential installation support in future grant funding opportunities.

Interested parties should send a proposal with pricing and at least 3 corporate references by e-mail to keith.matsumoto@pichtr.org or to the following address:

PICHTR PROGRAMS DIRECTOR
1440 Kapiolani Boulevard, Suite 1410
Honolulu, Hawaii 96814

EVALUATION CRITERIA

The selection of sources will not be based on the lowest bid but a combination of capabilities, fit to the end use cases, and other factors. PICHTR will provide procurement preferences to Minority Business Enterprises and Women-Owned Business Enterprises.

ADDITIONAL REQUIREMENTS

- 1) Compliance with the Environmental Protection Agency General Terms and Conditions Effective October 1, 2024
- 2) Compliance with 2 CFR Part 200 Uniform Administrative Requirements
- 3) Procurement
 - i) All procurement transactions will be conducted in a manner providing full and open competition consistent with 2 CFR § 200.319. In accordance with 2 CFR § 200.324, a cost or price analysis in connection with applicable procurement actions, including contract modifications.
- 4) Build America, Buy America Act (BABA)
 - i) Proposals must comply with the Build America, Buy America Act (BABA). All materials and components utilized in the Climate Controlled Farming Systems must be produced in the United States unless granted a waiver by PICHTR. Respondents must provide a certification of compliance with BABA or indicate any components that may require a waiver, with justification.
- 5) Insurance Requirements

Respondents must include proof of insurance meeting the following minimum requirements:

 - i) General Liability Insurance: Coverage of at least \$1,000,000 per occurrence and \$2,000,000 aggregate.
 - ii) Workers' Compensation Insurance: In compliance with state and federal laws.
 - iii) Professional Liability Insurance: Coverage of at least \$1,000,000 per claim (if applicable to design or engineering services).
 - iv) Automobile Liability Insurance: Coverage of at least \$1,000,000 combined single limit for all owned, hired, and non-owned vehicles used in connection with the project.

Proof of insurance must be submitted with the proposal. PICHTR reserves the right to request additional coverage if necessary.

For any questions regarding the RFP, please contact Keith Matsumoto at keith.matsumoto@pichtr.org.