

## Request for Qualifications

### Regional Characterization of Potential Shoreline Adaptations Strategies: A Spatial Framework to Facilitate Effective Permitting

#### REQUEST

The San Francisco Estuary Institute/Aquatic Science Center (SFEI/ASC) has been contracted by the State Water Resources Control Board and San Francisco Bay Regional Water Quality Control Board to develop a spatial framework for the effective permitting and application of regional climate change adaptation projects along the San Francisco Bay shoreline. SFEI/ASC's expertise is in shoreline characterization, historical and landscape ecology, geomorphology, and GIS. To execute this project, SFEI/ASC has need for a subcontractor with expertise in urban planning and the political economy of land use in the Bay Area to assist with identifying and developing a suite of structural and non-structural strategies that might apply to the upland/developed side of the shoreline and would influence the ability of adaptation measures to be implemented.

#### DEADLINE

Interested parties should email their application to [contracts@sfei.org](mailto:contracts@sfei.org) and the CONTACT below by Friday, March 24, 2017 @ 5:00 PST.

#### CONTACT

Julie Beagle, Project Manager: [julieb@sfei.org](mailto:julieb@sfei.org)

#### SCREENING AND SELECTION

Applications will be reviewed by SFEI/ASC. Selection will be based on institutional experience, technical expertise and composition of the project team for the proposed tasks.

#### PROJECT NEEDS

- Provide assistance with delineating and defining operational landscape units (OLUs) based on characteristics of the built environment such as historical and contemporary land use patterns, infrastructure, fill, real estate value, existing flood protection, local/state/federal jurisdictions, zoning, etc.
- Characterize non-physical aspects of the OLU shorelines that may impact the identification, planning, and implementation of appropriate adaptation strategies.
- Support the development of technical memoranda describing OLUs that incorporates a) criteria for matching structural and non-structural adaptation strategies to OLUs and a rationale for the selection criteria, and b) an understanding of regulatory or policy challenges to implementing the adaptation strategies.
- Limited project management and coordination: Steering Committee management, Technical Advisory Committee (TAC) meeting preparation and facilitation

## **PROJECT DELIVERABLES**

### **Task 1: Define OLU Process**

- Subcontractor will assist in the process to define operational landscape units (OLUs).
- Subcontractor will work with the ASC will convene a Technical Advisory Committee (TAC) and a Steering Committee of stakeholders (including representatives from regional, state and federal agencies) to provide guidance and review through Task 1 and subsequent tasks. Subcontractor will leverage relationships with land use and planning stakeholders in the Bay Area to help populate these advisory groups.

#### Task 1 Deliverables:

- 1-1. Input into draft technical memorandum
- 1-2. Input into final technical memorandum
- 1-3. Meeting notes from two half-day SAC workshops and two half-day steering committee meetings.

### **Task 2: Delineate OLUs for San Francisco Bay**

- Subcontractor will work with the project team to apply the process defined in Task 1 to develop a regional shoreline typology and OLUs for the San Francisco Bay shoreline.

#### Task 2 Deliverables:

- 2-1. Assistance in provision of GIS layers describing the built and natural environment
- 2-2. Input into draft technical memorandum
- 2-3. Input into final technical memorandum

### **Task 3: Identify and Pair Adaptation Strategies with OLUs**

- Subcontractor will assist team in compiling master list of adaptation strategies based on existing studies in the Bay and by reviewing adaptation efforts from other urbanized regions around the world.
- Subcontractor will assist team in creating criteria to match structural and non-structural adaptation strategies to the OLUs, and describe the rationale for the selection criteria.
- Subcontractor will assist team to inventory and map the jurisdictions, zoning, authorities, and other non-physical aspects of the shoreline that may affect implementation of identified adaptation strategies.
- Subcontractor will identify any additional regulatory or policy challenges to implementing the adaptation strategies.

#### Task 3 Deliverables:

- 3-1. Assistance in provision of GIS data layers describing the OLUs and adaptation strategies
- 3-2. Input into draft technical memorandum
- 3-3. Input into final technical memorandum

### **Task 4: Web-based Map and Report**

- Subcontractor will assist team in developing report and website content.

Task 4 Deliverables:

- 4-1. Web-based map
- 4-2. Draft summary report
- 4-3. Final summary report

**REQUIREMENTS FOR SUBMITTAL**

Interested parties should submit qualifications to complete this work which include relevant experience, and CVs for staff who will participate on the project.

**CRITERIA FOR RANKING QUALIFICATIONS**

Once qualifications have been received, SFEI-ASC will evaluate and score them based on the criteria and point scoring shown below. A perfect score would be 100 points.

1. Qualifications and Expertise (50 points): Subcontractor should have:

- A strong background in planning, policy, and design approaches to sea level rise and natural infrastructure
- Significant expertise in research and data analysis pertaining to cities, land use, climate change and adaptation
- Proven ability to leverage relationships with Bay Area experts, leaders, and stakeholders to execute complicated, complex projects involving land use and the effects of climate change

2. Experience (50 points): Points for experience will be awarded to entities that can demonstrate previous work in:

- Planning for sea level rise adaptation for urban/natural areas around the San Francisco Bay Area.
- Knowledge and experience with California and Bay Area land use governance, social and political context, jurisdictions, regulatory authorities, planning agencies and institutions, etc.
- Coordinating multiple agencies or stakeholders in the San Francisco Bay Area to achieve team deliverables on adaptation and resilience.
- Track record of engagement and leadership in Bay Area collaborations focused on adaptation and resilience in the built environment and infrastructure.

The parties receiving the highest score will enter negotiations towards a contract to perform work.