RISE Solicitation

May 14, 2018

Topic: Communications Pilot Evaluation Software Development

Responses due by: 12:00pm EDT, May 18th 2018

RISE is looking to procure the following services. Responses are due by the date and time above. Reponses should contain evidence of respondent's prior relevant experience (with examples where possible), as well as cost descriptions and estimates.

The Federal Funds used for this procurement will require that the awardee **must** have a DUNS number **and** be registered on sam.gov. Respondents should indicate if they have the DUNS number and sam.gov registration, or if they intend to get them. Either case will allow their response to be considered.

Please also indicate if your company is a Minority and Women Business Enterprise (MWBE).

Scope of Work

RISE is establishing a water sensor testbed in Hampton Roads. Sensors will communicate data wirelessly to a communications gateway (the "Gateway") and from there allowing access to the data via the internet.

The first step in establishing this testbed is the evaluation and selection of the Gateways. There are many currently commercially available and, in order to select the solution best for its needs, RISE has established a 4-month pilot program to install several candidate Gateways for evaluation with a view to a system procurement at the end of the pilot project. Six gateways are currently installed and another will be added shortly.

Vendors' data is acquired by RISE from their website by various webservices. These data need to be analyzed and characterized in a way that the evaluation committee members can understand.

Supplier will work with vendors and provide personnel capable of developing functions for continuously comparing data, and performing data analysis to produce reports that can be used as part of the vendor evaluation process, in addition to feedback on continued interactions with the vendors being evaluated.

Specifically:

General Data Management & Calculations

Data calculations and function development:

- Create functions to continuously calculate each vendor's reliability and achieved availability, including downtime, and using control truths where available. RISE will provide the algorithms for analysis.
- Create functions to continuously calculate each vendor's latency, and statistics of latency over the pilot period. RISE will provide the algorithms for analysis.

- Create additional functions to automate calculations as needed by RISE.

Charting
Develop methods and processes to chart vendors' systems' reliability and availability.

Reports
Develop reports of chart vendors' systems' reliability and availability.

About RISE:

RISE is a new 501c3 non-profit organization dedicated to helping solve some of the most pressing resilience problems facing today's coastal communities. RISE's mission is to catalyze innovation and growth around creative solutions in the areas of sea-level rise, recurrent flooding and economic resilience. By engaging and connecting thought leaders, conducting Challenge prizes and investing in the most promising solutions, RISE seeks to position Hampton Roads as a leader in the effort to build more resilient communities. For more information, visit riseresilience.org.