Program Information Sheet

Program Name

Communication, Education, & Engagement (CEE) Division: Building U.S. Communities' and Businesses' Resilience to Extreme Events

Program Mission

A key part of CEE's mission is to help U.S. communities and businesses better understand and manage their climate-related risks and opportunities, which includes building resilience to climate-related extreme events. To achieve this mission, CEE manages and maintains the U.S. Climate Resilience Toolkit (or CRT, online at https://toolkit.climate.gov), which gives easy public access to federal science-based information, tools, data products, and expertise—all designed to help U.S. decision makers, resource managers, municipal planners, and business and policy leaders ("stakeholders") build climate resilience for their valued assets. Partnerships across all domains—government, academic, commercial, and non-profit orgs—are essential to our success.

Focus for FY19

For FY19, the CEE Division seeks to establish a new Cooperative Agreement for evolution and/or integration of open-source / open-access tools, data products, information resources, methodologies, and expertise focused on helping U.S. local governments, communities, and businesses ("stakeholders") adapt / build resilience to climate-related impacts and extreme events. The point of this cooperative agreement isn't to conceive and create new innovations; rather, it is to integrate existing tools, resources, and/or methodologies that are successful, and that are readily scalable and/or interoperable, to produce "new wholes that are greater than the sum of (currently) disparate and disconnected parts." In alignment with the goals and objectives of the CRT, this new Cooperative Agreement Notice (CAN) title is **"Building U.S. Communities' and Businesses' Resilience to Extreme Events**" and it has three overarching objectives:

(1) Demonstrably and measurably help U.S. communities and businesses map their exposure to climate-related hazards, and build resilience to them;
(2) Demonstrably and measurably boost local U.S. economies by adding value, generating revenue, and creating jobs through resilience planning and building projects; and
(3) Encourage and facilitate the advent and evolution of an open, inclusive, and collaborative "resilience ecosystem" (RE) that includes subject matter experts across all four domains—academia, business, government, and non-profit organizations. The RE is defined as a facilitated, interoperable community of practice that systematically co-produces and shares knowledge, collaborates on mutually beneficial sets of tasks, and co-invests in the development and delivery of open access / open source products and services to meet objectives #1 and #2 while also achieving efficiencies, effectiveness, and economies of scale that haven't previously been achieved.

(For more details, see “Types of Deliverables Envisioned” section below.)

Funding for FY19

Pending the availability of funds in FY19, the CEE Division plans to offer a total maximum allocation of $250,000 to fund between five to ten projects, at between $25k to $50k per project, for work performance periods of up to one year, starting at the time of award.

Competition Information

For **Building U.S. Communities’ and Businesses’ Resilience to Extreme Events,** specific proposal foci include the following options…

1. Evolve and/or integrate open-source / open-access tools, apps and applications that benefit U.S. stakeholders, and benefit all adaptation practitioners in the Resilience Ecosystem for one or more objective as described in the CRT’s “Steps to Resilience” framework (see https://toolkit.climate.gov/#steps).
2. Demonstrate readily replicable, scalable, and affordable local or regional campaigns for mapping exposure to climate-related hazards, including (but not limited to): extreme heat, very heavy precipitation, flash flooding, poor air quality, invasive species, water-borne and vector-borne diseases, and wildfires. The aim is to dramatically reduce exposure to these types of hazards, thereby reducing their costs in damages (e.g., lives lost, illness, lost productivity, property and infrastructure damages, water quality and quantity, etc.). Deliverables should reduce complexity and make it quicker, easier, and more affordable for communities and businesses across the country to map and assess their exposure to climate-related hazards.
3. Knit together professional development / training webinars into purposeful curricula for building awareness, skill, and capacity for science-based analysis and decision-making among adaptation practitioners and stakeholders.
4. Identify and demonstrate methodologies, tools, and expertise for defining and measuring success of all of the aforementioned types of deliverables and activities — including, but not limited to, in economic terms.

The competition manager is David Herring (david.herring@noaa.gov; 301-734-1207)

Cost & Data Archiving Considerations

The CEE Division requires that all products and deliverables produced via this CAN will reside in the open access / open source domain, freely available to the public for the benefit of all.

Funding recipients will provide their own data / information / resource hosting capabilities (to be described in their proposal). Proposals are permitted to include the costs of data / information / resource hosting and archiving in their budgets. Where applicable, they’re also permitted and encouraged to cite any hosting and archiving solutions as either “in-kind contributions” or as provided using matching funds from other grant providers (to be described in their proposal).

Other types of project expenses that may be included in the proposed budget include travel costs, convenings, and equipment (scientific instruments, computers, etc) that is essential to

the success of the project.