**Grant Title:** BUILDING COMMUNITY AND CAPACITY FOR DATA-INTENSIVE RESEARCH IN THE SOCIAL, BEHAVIORAL, AND ECONOMIC SCIENCES AND IN EDUCATION AND HUMAN RESOURCES

**Funding Opportunity Number:** 12-538. CFDA Number(s): 47.075, 47.076, 47.080.

**Agency/Department:** National Science Foundation; Directorate for Social, Behavioral & Economic Sciences; Division of Behavioral and Cognitive Sciences; Division of Social and Economic Sciences; Directorate for Education & Human Resources; Research on Learning in Formal and Informal Settings; Office of Cyberinfrastructure.

**Area of Research:** Enable research communities to develop visions, teams, and capabilities dedicated to creating new, large-scale, next-generation data resources and relevant analytic techniques.

**Release and Expiration:** Release Date: February 24, 2012.

**Application Deadline:** May 22, 2012.

**Amount:** Approximately $5,000,000 in FY 2012. Awards are expected to have budgets of a scale appropriate for the type of proposal submitted. Workshop proposals may include requests for multiple meetings over the duration of the award. Larger-than-normal budgets may be considered for proposals that include correspondingly appropriate justification. Estimated Number of Awards: 25 to 60.

**Length of Support:** Awards are expected to be one, two, or three years in duration.

**Eligible Applicants:** Unrestricted.

**Summary:** The purpose of this announcement is to encourage submission of proposals for activities that will enable communities to develop visions for next-generation data and specific areas of research these data would enable; to build research and management teams for the integration of research, data, and data infrastructure, including automated and other analysis tools; and to prototype aspects of a proposed next-generation infrastructure. Workshop proposals, two or three-year Research Coordination Network proposals, and regular unsolicited proposals are all appropriate mechanisms for achieving these capacity-building goals. Submitted proposals should focus on the development of communities and infrastructure within which identified research may effectively proceed rather than the conduct of research itself. Successful proposals will outline activities that will have significant impacts across multiple fields by enabling new types of data-intensive research. Investigators should think broadly and create a vision that extends intellectually across multiple disciplines and that includes—but is not limited to—the SBE or EHR sciences. Proposals will need to describe the bodies of next-generation data that will be involved in the infrastructure. Investigators should think creatively about data and consider new data collections, repurposed existing data, and new approaches to data as appropriate for the research questions of interest. Novel approaches are encouraged. Successful proposals also should examine the following questions in an integrated manner: (1) What broad, important, fundamental research questions are to be addressed? What research communities would be interested in exploring these questions? (2) What kinds of data are to be involved, including the metadata and the broader infrastructure in which the data are embedded? The data involved may be newly gathered, newly aggregated, and/or newly created. (3) How will the databases/assets be constructed? What new analytic or statistical approaches are needed to analyze the data? (4) What infrastructure is required to ensure access to and long-term maintenance of these large-scale data? In addition, investigators should begin thinking about these related longer-term issues: (1) What types of infrastructure and data acquisition approaches are required to support wide scale deployment and use? (2) How will these new research communities address governance and sustainability issues?

**Detail Information:**