



Office of Library Services September 2016 National Leadership Grants Announcement (Second Round)

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Arizona

Arizona State University

Log Number: [LG-80-16-0116-16](#)

Award Amount: \$249,999

In partnership with the University of Michigan School of Information, the Center for Gender Equity in Science and Technology at Arizona State University will provide professional development to twelve public librarians across three systems using the CompuGirls program model. CompuGirls is a well-established, evidence based, and culturally responsive program for young women of color to help them develop computational thinking skills. Over the two-year grant period, 180 girls will participate in the program across the three library systems. Based on feedback from partner libraries, the team will modify the existing curriculum to develop a library-specific model that is purposefully low-resource (cost, expertise, time). Partner libraries include Ypsilanti Public Library (MI), Imperial County Public Library (CA), and Tempe Public Library (AZ).

California

San Jose State University Research Foundation

Log Number: [LG-70-16-0114-16](#)

Award Amount: \$249,998

This project will help libraries explore dramatically expanding internet access in their communities by using TVWhiteSpace (TVWS), a new low-cost wireless technology. This project will be led by San Jose State University's School of Information. Key collaborators, including the Gigabit Libraries Network, the School, Health, & Libraries Broadband Coalition, the National Digital Inclusion Alliance, and the Information Technology Disaster Resource Center, will explore dramatically expanding digital access/inclusion and modes to provide connectivity as part of disaster preparedness.

University of California, Santa Barbara

Log Number: [LG-73-16-0096-16](#)

Award Amount: \$100,000

The University of California Santa Barbara will hold a series of meetings to develop strategies around library collections that support computationally-driven research and teaching. Partner organizations include University of Pennsylvania, University of North Carolina Chapel Hill, Penn State University, Emory University, and Texas A&M University, and meeting attendees will include librarians, archivists, museum professionals, technologists, researchers, and practitioners. The project will lead to the creation of a framework to support library collections as data, the identification of methods for making computationally-amenable library collections more discoverable, use cases and user stories for such collections, and guidance for future technical development.

Shift Design, Inc.

Log Number: [LG-72-16-0113-16](#)

Award Amount: \$48,743

Historypin, a free international platform for sharing culture and heritage, will work with tribal libraries in New Mexico and California to develop an online and in-person community memory program. The program will aim to build capacity, strengthen communities, and decrease social isolation through technology training and intergenerational programming around shared cultural heritage. The planning process will engage a diverse group of communities, moving toward a simple and scalable digital program with training and evaluation modules that can be conducted within the limits of under-resourced rural tribal libraries. Project partners include the New Mexico State Library's Tribal Library Program and the University of California, Riverside, who will contribute to state-level planning and coordination activities.

Regents of the University of California

Log Number: [LG-70-16-0093-16](#)

Award Amount: \$244,894

The California Digital Library, in partnership Harvard Library and UCLA Library will develop Cobweb, an open-source collaborative collection development platform for creating comprehensive Web archives by coordinating the activities of the Web archiving community. The project consists of four coordinated and complementary activities: developing the open source Cobweb system; user interface design and



usability testing; community outreach and engagement; and production deployment. The shared curatorial decision-making enabled by Cobweb will benefit the libraries and archives already engaged in Web archiving as well as those that have not yet started, and it will help them make better informed decisions regarding the allocation of their finite resources. As a tool for managing our digital heritage, Cobweb furthers IMLS's efforts towards developing a national digital platform.

Connecticut

Hartford Public Library

Log Number: [LG-80-16-0141-16](#)

Award Amount: \$595,204

In partnership with Hartford Public Schools and other community agencies, Hartford Public Library will implement the "Linking Learning, Belonging and Community" program. Over the course of the three-year project, HPL and its partners will develop an interdisciplinary curriculum for immigrant and refugee youth, ages 17-21, focused on English language acquisition, digital/information literacy skills, leadership development, cultural competency, and social action. Locally, 180 youth will participate in the program over nine cycles and may earn academic credit for their participation. The Hartford Public Library will disseminate the following project deliverables to the broader library and K-12 professions to encourage broad adoption: the project's curriculum, online creative commons for sharing youth projects; and professional development resources to support adoption of the model, including training for staff and volunteer mentors, as well as strategies for recruitment and outreach.

Illinois

Adler Planetarium

Log Number: [LG-71-16-0028-16](#)

Award Amount: \$1,214,780

The "Transforming Libraries and Archives through Crowdsourcing" project, a research partnership between Adler Planetarium's Library and researchers at Oxford University, will greatly expand the capacity for libraries and archives across the country to use crowdsourcing techniques to engage with audiences and improve access to digital collections through the Zooniverse. The Zooniverse, an international crowdsourcing organization with 1.4 million volunteers, is poised to serve as a transformative element in the future of library and archive engagement efforts and as a core component of the national digital platform. Through this effort, the team will develop a series of library/archive Zooniverse projects that explore improvements to full text and audio transcription and image annotation crowdsourcing tools and research differences between transcribing in isolation versus with knowledge of others' transcription. Lessons learned from these projects



will be incorporated into the Project Builder, which enables anyone to build a crowdsourcing project for free.

Northwestern University

Log Number: [LG-72-16-0135-16](#)

Award Amount: \$49,114

Northwestern University Libraries, in collaboration with the University of California San Diego Library, will explore issues related to the integration of local services with distributed preservation networks such as the Digital Preservation Network (DPN), Chronopolis, and the Academic Preservation Trust (APTrust). To ensure the research is useful to a range of institutions, a targeted group of organizations representing a variety of types of libraries, archives, museums, and preservation solutions, will be surveyed. The project team will explore questions related to topics including digital object curation, versioning and metadata in dark preservation systems, and interoperability of various systems, in order to develop broadly-applicable solutions and design patterns.

Indiana

University of Notre Dame Du Lac

Log Number: [LG-72-16-0122-16](#)

Award Amount: \$45,590

The University of Notre Dame's Hesburgh Libraries will conduct a planning effort with support from the Center for Open Science (COS) and a range of additional stakeholders to address needs for preserving data and software. The goal is to collaboratively design an interoperable and repository agnostic Data and Software Preservation Quality Tool. The planning process will consider existing solutions to better represent digital workflow methodologies, improve data and software provenance, automatically enhance metadata, perform schema validation, improve file format recognition, interoperability, data integrity, and ultimately facilitate reproducibility. Information gathered during panels, workshops, and meetings will be preserved and shared transparently using a free online presentation sharing service. This input will form the basis for a collaboratively authored planning report which will include detailed technical and administrative project plans.

Massachusetts

Northeastern University

Log Number: [LG-73-16-0126-16](#)

Award Amount: \$98,822

The Northeastern University Library's Digital Scholarship Group will hold a series of meetings to inform and support the development of a teaching and learning toolkit focused on the handling of diversity within the design of information management



systems, interfaces, and protocols. The toolkit will address topics including: the effects of tools and interfaces on interactions with documents and items, commonalities and differences between communities of users, and the influence of knowledge representation and other forces on the design of tools and interfaces. These issues will be discussed at an opening forum event, followed by a second meeting of a small design group to draft a toolkit of teaching and learning materials. Those materials will be circulated for public comment, and discussed in detail at a concluding open forum, whose results will be used to create a final version of the toolkit.

Maryland

University of Maryland

Log Number: [LG-81-16-0154-16](#)

Award Amount: \$426,256

The University of Maryland, partnering with the Maryland State Department of Education's Division of Library Development & Services (DLDS), the American Library Association's Center for the Future of Libraries (CFL), and CASA de Maryland, will identify privacy and security challenges librarians and families of low socioeconomic status face using internet and communication technologies. After conducting an evaluation of the challenges facing librarians, families of low socioeconomic status, and information intermediaries within families such as the children and young adults who serve as information brokers, the partners will develop a suite of educational and professional development resources for librarians and families to enhance privacy-related digital skills and to minimize risks to the security of individuals' personal information. Up to 50 local families and 40 librarians will participate in the study while data, research reports, and resources will be made accessible to the broader field through a project website, webinars, conference presentations, stakeholder talks, and social media.

Nebraska

Board of Regents of The University of Nebraska

Log Number: [LG-71-16-0152-16](#)

Award Amount: \$462,317

The Image Analysis for Archival Discovery (Aida) research team at the University of Nebraska-Lincoln will investigate the use of image analysis as a methodology for content identification, description, and information retrieval in digital libraries and other digitized collections. The project will focus on identifying poetic and advertising content in digitized historic newspapers. Using a machine learning approach, the project will result in an intelligent computational system that can process digital images and identify these specific types of content. The tools and methodologies produced will improve libraries' capacity to identify digital content



at and below the item level, and increase access to information currently obscured in large digital collections.

New York

Brooklyn Public Library

Log Number: [LG-72-16-0130-16](#)

Award Amount: \$50,000

Through this planning project, Brooklyn Public Library (BPL) will pilot BKLYN Link, a community-driven mesh network providing free broadband access and a technology-based fellowship program for young adults ages 18-24. A mesh network is a wireless network that uses radio nodes and laptops, cell phones, and other wireless devices to provide reliable access to the Internet. BPL will conduct community asset mapping in three low-income Brooklyn neighborhoods to identify which community is best positioned to host a mesh network; plan the technical structure of a mesh network and develop user policies and procedures; design a technology-based youth fellowship program that would teach young adults to install and maintain the mesh network; pilot a five-month abbreviated version of the fellowship; and develop a “playbook” of strategies and tools for deepening community engagement and launching a mesh network.

Oklahoma

Independent School District I-29

Log Number: [LG-81-16-0151-16](#)

Award Amount: \$540,388

Norman Public Schools and its University of Oklahoma library and information science and educational psychology research partners will conduct a three-year design-based participatory action research study that builds knowledge on participatory learning in K-12 school libraries. The purpose of the research is to design and test the viability of integrating a “learning by making” approach, focused on design, creativity, problem solving, and hands-on application and transfer of knowledge, into the regular K-12 curriculum through the school library when Guided Inquiry Design (GID) is applied. GID is a framework for designing inquiry learning through eight phases to give students the time and the guidance to identify inquiry questions. In addition to professional development for teachers, 570 elementary, middle, and high school students will participate. The project will impact multiple communities such as, school libraries, public libraries, museums, and afterschool clubs, and inquiry and makerspaces, helping to transform the role of school librarians as designers, researchers, and leaders redefining K-12 learning.

Washington

Washington State University



Log Number: [LG-70-16-0054-16](#)

Award Amount: \$641,832

Washington State University will extend the functionality of the free and open source platform Mukurtu, a content management system and community archive platform built with indigenous communities to manage and share digital cultural heritage. Working with partners including the University of Hawaii's Department of Linguistics, the Alaska Native Language Archives, the University of Oregon Libraries, the University of Wisconsin, the Wisconsin Library Services, and Yale University's Beinecke Rare Book and Manuscript Library, WSU will create a set of national Mukurtu Hubs. Hubs will contribute to the ongoing development and deployment of the platform, as well as provide training and support to tribal archives, libraries, and museums. The project will expand the reach of the software and ensure its sustainability.