

**Full Grant Proposal
Library Services and Technology Act FFY 2013**

This form is available for download on our web site via:
<http://www.oregon.gov/OSL/LD/grantmainalt.shtml>. Use 12 point Times New Roman, with one inch margins. Do not alter the format of this form. The deadline for receipt of the Project Proposal is **5:00 pm on Friday August 10, 2012.**

Part I: General Information

1. Project title: Development and Management of the *Building Oregon: Architecture of Oregon and the Pacific Northwest* Mobile Project
2. Applicant: Oregon State University
3. Address: 308 Kerr Administration Building, Oregon State University, Corvallis, OR 97331-2140
4. Contact person: Patricia A. Hawk Phone: 541.737.4933
Email: sponsored.programs@oregonstate.edu
5. Fiscal agent (if different than applicant): N/A
6. Project URL (if any):
7. U.S. Congressional District: OR-005
8. DUNS number: 053599908
9. List geographic target area to be served by the project: State of Oregon
10. Estimated number of persons benefiting from the project: 25,000 +
11. Description of persons benefiting from the project:
Oregon citizens, students, tourists, educators, architecture aficionados and historians will be directly impacted by taking the Building Oregon collection and making it mobile. Libraries with digital collections who are interested in using the developed framework to mount their collections in a digital environment will benefit as well.
12. List partnering organizations. All partnering organizations must also sign section IV.1. See instructions for guidance on partners versus participants.
13. Project abstract (one paragraph):
Forty-three to sixty-three percent of the population of the United States owns web-enabled phones and they are using their phones to access a variety of content types. OSU Libraries wants to build on our existing digital partnership with the University of Oregon Libraries to create a web-based tool, optimized for use in a mobile environment that takes

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the University of Oregon’s *Building Oregon: Architecture of Oregon and the Pacific Northwest* collection, and makes it accessible to users in the mobile landscape, leveraging the tools and capabilities that the mobile environment provide. *Building Oregon* is a traditional digital collection of approximately 20,000 images representing approximately 5,000 cultural properties from nearly 500 sites. Development of a mobile website has tremendous potential to educate and inspire tourists, educators, architecture buffs, Oregon citizens, students, and historians. The nature of the mobile tools allows us to leverage mapping technologies, proving the opportunity for someone to search on their location and pull up related collection information, to use the tool to create a tour of local architecture or access the collection as a standalone research experience. Once the mobile tool has been created, OSU Libraries will release the framework on open source code repositories, like GitHub, for other libraries with digital collections to use to mount their own digital collections or repurpose existing digital collections in a mobile environment.

- 14. Provide the text of the single most relevant goal from the *Five-Year State Plan 2013-2017* that will be addressed by the grant project.

Goal 2 - Use technology to increase capacity to provide library services and expand access

- 15. Briefly describe how the LSTA project will continue after the grant ends, especially noting local support.

Mobile web browsers are regularly updated by their creators, and when updates like this occur, Building Oregon will need to be tested to make sure everything continues to work properly. OSU Libraries staff will train the University of Oregon Libraries staff on how to test the framework on mobile web sites, and will include documentation in the release information on how testing is performed. OSU Libraries will be responsible for updating the framework, and for uploading the code to the selected repositories. It is then up to libraries using the framework to update their site with the modified code.

- 16. List letters of support for the project (name, affiliation) that are attached to this application. Do not include letters from project partners listed in #11.

Jane Jarrett – Executive Director, Architecture Foundation of Oregon
Peggy Moretti – Executive Director, Historic Preservation League of Oregon
Val Ballestrem – Education Manager, Architectural Heritage Center
Deb Carver – University Librarian, University of Oregon Libraries
Bart King – Author, *Bart King’s Architectural Guidebook to Portland*

PLEASE FILL IN THE FOLLOWING INFORMATION ABOUT THE ANTICIPATED LENGTH OF YOUR GRANT PROJECT:

(Check applicable boxes)

THIS IS THE 1st YEAR OF A ONE YEAR GRANT PROJECT
 2nd YEAR TWO YEAR
 3rd YEAR THREE YEAR

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For projects that are multi-year be sure to include an estimate of the funds anticipated to be needed for the future years in the budget discussion.

THIS IS PRIORITY ONE (1) OF THIS ORGANIZATION’S PROPOSALS

Part II: Project Budget

Proposed project budget (use this format only – do not alter):

(Double click on the table to enter data. Before closing the table, be sure to scroll to the top of it)

Item	Local Cash	Local In-Kind	LSTA	TOTAL
Personnel				\$0
Benefits				\$0
Travel				\$0
Equipment				\$0
Supplies				\$0
Contractual				\$0
Library Materials				\$0
Total Direct Charges	\$0	\$0	\$0	\$0
<i>Indirect Charges**</i>				\$0
Total Budget	\$0	\$0	\$0	\$0

*** If requesting indirect charges, you MUST attach the relevant portion of a current federally-approved indirect cost plan.*

Proposed second year LSTA amount: \$0 Proposed third year LSTA amount: \$0

Part III: Project Narrative

(Attach additional pages. See the criteria for grant proposal evaluation in the Grant Guidelines as well as the Grant Application Instructions for more information on this section.)

A. Background of Applicant (describe the agency's ability to undertake this project)

The Oregon State University Libraries comprise the second largest academic library system in Oregon. The Libraries provide support to meet the informational, reference and research needs of OSU’s faculty, staff and students, as well as the citizens of Oregon at three locations throughout the state.

The OSU Libraries consist of the Valley Library, the main library at the Corvallis campus; the Guin Library, located at the Hatfield Maine Sciences Center in Newport; and the OSU Cascades Campus Library, co-located on the Central Oregon Community College campus in Bend. The McDowell Veterinary Library in OSU’s College of Veterinary Medicine is an affiliate component of the OSU Libraries. Together, we hold nearly 2 million volumes, 34,000 current serials, more than 500,000 maps and government documents, and extensive archival and special collections. Additionally, we provide access to approximately 250 databases, and nearly 72,000 eJournals.

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OSU Libraries has a tradition of technical innovation and exploration. In 2006, Oregon State University (OSU) Libraries developed an open source software product called Library à la Carte™ that librarians can use to construct research guides easily and quickly. The code was made available to other Libraries, and a number of institutions have adopted the tool. LibraryFind™, our locally developed open source search tool, was developed to provide federated searching of the local catalog, selected subscription databases and digital collections. Built using Ruby on Rails an open source programming language, LibraryFind™ also serves as the search tool for the libraries' Oregon Explorer natural resources digital library and Library à la Carte™ course pages. It was also funded in part by an LSTA grant and debuted in 2007.

In 2008, OSU Libraries decided to begin development of a mobile website to deliver information wherever and whenever it was needed. We were the first unit at OSU to develop a mobile site; in fact, we were one of the first libraries in the nation to do so, and our work in the mobile arena as such, is cited often. We have, since then, launched three different mobile tools designed to take content and push it out to users in new ways. In June 2010, OSU Libraries launched Beaver Tracks, an interactive mobile guide and walking tour of Oregon State University's historical locations. In Winter 2011, Book Genie, a mobile book recommender attached to our library catalog was released and in Spring 2012, we launched *Bart King's Architectural Guide to Portland* – a mobile walking tour of Portland that connects with a popular OSU Press title of the same name.

OSU Libraries has six years of mobile development experience, a veritable lifetime in the mobile computing world. We have focused on creating mobile tools that provide access to digital collections in innovative ways. OSU Libraries approaches mobile development by not focusing on building applications for a specific device, but building open source tools or frameworks, which can be shared easily and which make content available in a device agnostic form. Wherever the need for information exists, we strive to provide it, whether that is in a park, on a street corner or in a classroom.

B. *Detailed statement of problem*

An ever-increasing percentage of Americans are using web-enabled mobile phones to access information in a variety of content types. Significant digital library collections such as the University of Oregon Libraries' *Building Oregon: Architecture of Oregon and the Pacific Northwest* are at risk of being inaccessible to those using mobile devices without the development of a mobile-specific version that leverages the tools and capabilities of the mobile environment. *Building Oregon* is a traditional digital collection of approximately 20,000 images representing approximately 5,000 cultural properties from nearly 500 sites. Development of a mobile website has tremendous potential to educate and inspire tourists, educators, architecture buffs, Oregon citizens, students, and historians. The nature of mobile tools allows us to leverage mapping technologies, providing the opportunity for someone to search on their

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location and pull up related collection information, to use the tool to create a tour of local architecture or access the collection as a standalone research experience. Once the mobile tool has been created, OSU Libraries will release the framework in open source code repositories, like GitHub, for other libraries with digital collections to use to mount their own digital collections or repurpose existing digital collections in a mobile environment.

OSU Libraries has experience creating mobile tools that provide access to digital collections in innovative ways. In this changing technological landscape, it is important for libraries to work together to leverage expertise. By partnering together, the University of Oregon Libraries will benefit from OSU Libraries' experience in building mobile way-finding tools, while finding new audiences for their high-value collections. OSU Libraries will directly benefit from this project by developing an update to our existing mobile framework, which will enhance our existing tools, user-development experience and strengthen the collaborative relationship between OSU Libraries and the University of Oregon Libraries. Additionally, OSU Libraries will share the code framework with other interested institutions, especially other Oregon libraries. By developing mobile tools that push out collections to users in new and interesting ways, we are promoting the types of collections that can be found in many libraries in Oregon, not just the collections of the University of Oregon Libraries.

- C. *Describe the proposed solution that the project will implement. Indicate the project goal, and the quantified objectives that will be used to measure whether the goal is accomplished. Describe the activities that will be undertaken to meet each objective. (Include timeline)*

OSU Libraries will modify an existing mobile development framework developed in-house to mount the *Building Oregon* collection in a mobile environment. This framework was created using open source tools and is optimized for use in a mobile environment. This is a mobile website, not an app, allowing us greater flexibility in terms of updating content and availability to users – most importantly, it is not device specific; anyone with a web-enabled mobile device will be able to access the content. By leveraging our usability and development expertise, OSU Libraries will use this framework as the jumping-off point for creating a tool that will make the University of Oregon's collection accessible and interactive while enhancing the existing framework to explore newer areas like augmented reality and enhanced geo-location services.

In order to enhance the existing framework, and make the data available in a mobile format, we will hire a programmer for 9 months at 40 hours per week. The programmer will migrate the existing framework to the most recent version of Ruby on Rails, an open source programming language designed to boost the speed and ease with which database-driven web sites can be produced, as well as explore and implement newer technologies and integrate them into this project. Once the framework has been updated, the programmer will prepare the content and the metadata to be accessed or migrated through the mobile framework and consult with

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the staff at the University of Oregon if there are any issues. Once that is complete, extensive user testing will be done and the site will be launched and promoted through a variety of sources including local historical and architectural societies, tourism boards, educational conferences, and the libraries.

A primary goal of the project is to have a working framework up on at least two open source repositories, with documentation on how to pull various content types into the framework to create a working mobile collection. Throughout the process, we will engage in rigorous product testing and usability testing. Once the tool is launched, we will set up a quarterly testing schedule to ensure that the collection is still accessible through most mobile web devices.

We expect it will take approximately 3 months to complete the hiring process for a temporary programmer with the requisite skills to work on the project. Once hired, we expect to have a wireframe or mock-up of the site to be vetted and approved by all stakeholders, and a plan for the database back end to be completed by the end of the third month. Months four and five will be spent building the site and migrating content as well as regular product testing. Months six and seven will focus on usability testing, documentation writing and soft launch. Months eight and nine will be set aside for final fixes, launch, and the release of the framework.

D. Budget narrative

Costs associated with this project consist primarily of personnel and travel at a total cost of \$68,635. Most of the LSTA funds will underwrite the costs associated with hiring a temporary programmer for nine months at \$63,750, including salary (\$41,250) and benefits (\$22,500). The other LSTA funds requested include \$1,000 toward travel for the project participants to attend meetings and perform usability testing in the state. Any promotion outside of the state will be covered as part of professional development by the home institutions. Indirect costs are included at 6%.

Local in-kind funds will consist primarily of OSU Libraries' staff time and will total \$11,087. OSU Libraries' Programmer/Analyst will devote 7% of their time to this project (\$6,017 in salary and benefits) and the Director of Emerging Technologies and Services will provide approximately 3% of her time to this project (\$3,300 in salary and benefits). Other local in-kind costs that will be covered by OSU Libraries involve computer purchase, phone service, and photocopy service, which will total \$1,770.

E. Evaluation method

Throughout the process, the tool will be evaluated to ensure the best user experience possible. Additionally, there will be regular evaluation of the product to make sure all of the components speak to each other properly. The documentation will be tested and evaluated by the staff at both libraries before being released, and commenting will be allowed on the code repository sites. We will perform usability testing prior to launch to ensure the best end-user experience. The evaluation process will capture

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results from a variety of potential user groups and will involve focus groups, surveys and direct observation techniques. We will also provide a feedback mechanism through the mobile website to continue to solicit feedback after the launch. Quarterly (or more often if necessary), the tool will be evaluated to make sure it meets current browser standards and usage statistics will be kept so we can track usage of the site.

Part IV: Certification of Application

- 1. Documentation of project support. Partners listed in Part I, number 12 must sign. The grant applicant signs IV.3.d. If the fiscal agent is different than the applicant, they sign IV.3.e.

I HAVE READ THE PROPOSAL PRESENTED ON THE PRECEDING PAGES. I AM AWARE OF THE OBLIGATIONS THAT PARTNERSHIP IN THE PROPOSED PROJECT WOULD ENTAIL. BY MY SIGNATURE I CERTIFY MY ORGANIZATION'S COMMITMENT TO SUPPORT THE PROPOSED PROJECT AS DESCRIBED IN THE PRECEDING PAGES.

<i>Name</i>	<i>Library/Organization</i>	<i>Signature</i>	<i>Date</i>
<i>Patricia A. Hawk Director Office of Sponsored Programs</i>	<i>Oregon State University</i>		<i>August 10, 2012</i>

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2. Certification for Children’s Internet Protection Act

Public and public school library applicants, and consortia with public or school members **must** check one of the options below (a, b, or c).

a.	The applicant public or public school library has complied with the requirements of Section 9134(f)(1) of the Library Services and Technology Act. Every computer connecting to the Internet, public and staff, is filtered. The filter can be disabled upon request of adults.
b.	<i>(for consortia only)</i> Prior to using any LSTA funds to purchase computers used to access the Internet or to pay for direct costs associated with accessing the Internet for a public library or a public school library, the applicant consortium or group will collect and retain a duly completed Internet Safety Certification from every constituent public library or public school library in accordance with requirements of Section 9134(f) of the Library Services and Technology Act. Every computer connecting to the Internet, public and staff, is filtered. The filter can be disabled upon request of adults.
c.	The requirements of Section 9134(f) of the Library Services and Technology Act do not apply to the applicant library because no funds made available under the LSTA program will be used to purchase computers used to access the Internet or to pay for direct costs associated with accessing the Internet for a public library or public school library that does not receive discounted E-Rate services under the Communications Act of 1934, as amended.

3. Certification of the grant applicant and/or fiscal agent (if different than applicant)

- a. I affirm that the jurisdiction or organization (henceforth, ORGANIZATION) is the designated fiscal agent for the project described in this application and is empowered to receive and expend funds for the conduct of the proposed grant project.
- b. I affirm that the information contained in this application is true and correct and that the ORGANIZATION for which I am an official has authorized me to submit this application for LSTA grant funds.
- c. I affirm that if this application were to result in the ORGANIZATION being awarded grant funds to carry out the project described in this application, that the ORGANIZATION would comply with all of the federal and state requirements for the administration of LSTA grants, including part IV.2 above and allowable costs described in Appendix B of the General Information and Grant Application Guidelines, Library Services and Technology Act.

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As a courtesy, the State Library asks that you email an electronic copy of your proposal, in rtf or Word format, without letters of recommendation and appendixes, to *ann.reed@state.or.us*. This does not substitute for the signed, mailed copy.