

APPROPRIATIONS REQUEST FORM OREGON HOUSE DELEGATION FISCAL YEAR 2010

DEADLINE FOR SUBMISSION: FEBRUARY 13, 2009

PLEASE NOTE: As required by the House Appropriations Committee, all requests will be made public on the requesting Member's website.

1. Project Title: Today's Children, Tomorrow's Innovators

2. Organization Name and address:

Oregon Museum of Science and Industry (OMSI)
1945 SE Water Avenue
Portland, OR 97214

3. Primary Contact name, phone number, mobile phone number, fax number and email:

Ray Vandiver
(503) 797-4540
(503) 797-4500 – fax
RVandiver@omsi.edu

Or

Mark Dedrick
Ball Janik LLP
(202) 638-3307
(202) 783-6947 – fax

4. Project Location Address (if different from Organization):

Same as above.

5. Please describe the requesting organization's main activities, and whether it is a public, private non-profit, or private for-profit entity:

The Oregon Museum of Science and Industry (OMSI) is an independent non-profit 501(c)(3) organization. OMSI is a scientific, educational, and cultural resource center dedicated to improving the public's understanding of science and technology. Five exhibit halls and eight science labs offer 219,000 square feet of brain-powered fun through hundreds of interactive exhibits and hands-on demonstrations. OMSI's multi-attraction complex features a big screen OMNIMAX® Theater, the Northwest's largest planetarium, and the USS Blueback, the last fast-attack, diesel-powered submarine built by the U.S. Navy and after serving for 31 years,

the last of its kind to be decommissioned. OMSI also offers a variety of camps and classes as well as one of the largest outreach programs in the nation, taking innovative science and technology education "on the road" to students, teachers and the public in seven Western states.

6. Briefly describe the activity or project for which funding is requested (please keep to 500 words or less.)

OMSI, in collaboration with Portland State University's Center for Science Education, will design and implement a teacher professional development program that builds teachers' capacity to incorporate curricula into the classroom that address the state's new engineering design standards. More than a set of activities, the proposed program would give teachers the tools they need to engage students in the inquiry-based design and testing that is at the heart of engineering and technology innovation.

The proposed program will target 100 Oregon elementary school teachers (75 in the Portland metropolitan area and 25 in rural areas throughout the state) and their students. It will:

1. Provide elementary school teachers with the knowledge and abilities to engage students in the engineering design process; and
2. provide engaging, hands-on educational opportunities for students to learn about engineering and design.

Teacher Professional Development – OMSI and PSU will develop a week-long college-level training course to be offered at PSU and OMSI as well as in several Eastern Oregon locations. The program will include time for teachers to use what they've learned with students and then reflect with other teachers on challenges and the effectiveness of different techniques.

Museum Experiences – Students of each of the 75 teachers from the Portland area who complete the professional development course will participate in a field trip to OMSI to extend their classroom learning in a hands-on environment that includes a lab program focused on engineering. Lab programs will engage students in creating their own designs that they will then test in OMSI's *Engineer It!* Exhibit.

Outreach Programs – The engineering lab programs will be presented to classes in rural areas by OMSI's traveling programs staff. OMSI will design and build table top exhibits that will accompany these programs and will allow these students to test their designs in the same manner as students taking part in museum-based experiences.

Exhibit Upgrades – OMSI will make improvements to its existing *Engineer It!* Exhibit that reflect the new state engineering standards. These exhibits will then be incorporated into the hands-on experiences that students participate in at the museum. The renovated exhibits will also inform the development of tabletop exhibits for OMSI traveling programs.

Including engineering design along with scientific inquiry is an innovation in state academic science education standards. We believe the collaboration of a science center and a university can advance that innovation by ensuring that teachers have the skills they need to help students meet the state standards.

7. Has this project received federal appropriations funding in past fiscal years?

No.

7a. If yes, please provide fiscal year, Department, Account, and funding amount of any previous funding.

8. Federal agency and account from which funds are requested (Please be specific – e.g. Department of Housing and Urban Development, Economic Development Initiatives account):

Either Department of Education, FIPSE or Institute of Museum and Library Services.

9. What is the purpose of the project? Why is it a valuable use of taxpayer funds? How will the project support efforts to improve the economy and create jobs in Oregon?

The state of Oregon has recently implemented new engineering design standards. While this is an important component of improving science education, improved standards alone are not enough. Elementary school teachers in Oregon must be equipped with the skills and knowledge they need to effectively teach the state's new engineering design standards. This project will help to drive innovation and productivity in Oregon for decades to come.

10. Have you requested funding for this project from other Members of Congress? If so, who?

Yes. This request is being made of the entire Oregon Congressional delegation.

11. Funding Details:

a. Total project cost (all funding sources and all years):

\$813,000

b. Amount being requested for this project in Fiscal Year 2010:

\$725,000

c. What other funding sources (local, regional, state) are contributing to this project or activity? (Please provide specific dollar amount or percentage.)

OMSI will be contributing \$28,000 for exhibit repair and maintenance, \$13,000 for museum education and \$40,000 for a new unit in engineering design for the Vernier Technology Lab. Portland State University will be contributing \$7,000 for a graduate assistant.

d. Do you expect to request federal funding in future years for this project?

Teacher education and development is a priority for OMSI, so while there are no plans to request funding at this time, there is certainly a possibility that OMSI will request funding for similar projects in the future.

e. Breakdown/budget of the amount you are requesting for this project in FY 2010. (e.g. salary \$40,000; computer \$3,000):

TCTI - OMSI

Project Budget

	Budget
Personnel Costs	
Salaries	93,387
Fringe Benefits	18,677
Travel	26,456
Materials & Supplies	114,275
Participant Support Costs	83,739
Contracted Services	
Bilingual Development	11,277
Portland State University	282,865
NCTL / MOS Boston	6,000
Other Direct Costs	0
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TOTAL DIRECT COSTS	636,519
Exclusions from indirects*	(377,881)
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Indirects Base	258,637
Indirect Costs @ 34.15%	88,325
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TOTAL PROJECT	725,000

f. Please list public or private organizations that have supported/endorsed this project:

This project is supported by the Oregon Department of Education, Portland Public Schools, the Oregon Science Teachers Association and Portland State University.

g. Is this project scalable? (i.e. if partial funding is awarded, will the organization be able to use the funds in FY 2010?):

Yes. Fewer dollars will simply allow fewer teachers to take part in the program.

Please return this form no later than February 13, 2009 (via email) to:
appropriations.blumenauer@mail.house.gov

