

# 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:**

ESMART Collaborative: Improved Patient Care Through Inter-professional Health Curriculum Development

**2. Organization Name and address:**

Oregon Health & Science University  
3181 SW Sam Jackson Park Road  
Portland, OR 97239

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

Lynne Davis Boyle  
Director of Federal Relations  
Government and Community Relations  
3181 SW Sam Jackson Park Road, L101  
Portland, OR 97239  
Phone: 202-256-5070  
Fax: 202-349-4099  
Email: [boylel@ohsu.edu](mailto:boylel@ohsu.edu)

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

Area Health Education Centers throughout Oregon: Lincoln City, Roseburg, Bend and LaGrande

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

Oregon Health & Science University is the state's only health and research university, and Oregon's only academic health center. OHSU is Portland's largest employer and the

fourth largest in Oregon (excluding government), with 12,700 employees. OHSU's size contributes to its ability to provide many services and community support activities not found anywhere else in the state. It serves 210,000 patients annually, and is a conduit for learning for more than 3,400 students and trainees. OHSU is the source of more than 200 community outreach programs that bring health and education services to every county in the state.

As a leader in research, OHSU earned \$299 million in research funding in fiscal year 2008. OHSU serves as a catalyst for the region's bioscience industry and is an incubator of discovery, averaging one new breakthrough or innovation every three days, with more than 4,000 research projects currently under way. OHSU research has resulted in 37 new spinoff companies since 2000, most of which are based in Oregon.

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

Research generally suggests that interdisciplinary health care teamwork improves patient care through better clinical outcomes and increased patient satisfaction. The most effective way to build a team based model for practice is to develop a collaborative interdisciplinary clinical skills education model for students of medicine, nursing and dentistry.

The E-SMART collaborative will be a group of statewide health educators, researchers, health care providers and media developers for undergraduate and graduate dentistry, medicine, nursing, and informatics. The group will work together to improve access to and quality of care by educating the next generation of providers with curricula that combines inter-professional education with telehealth, simulation and other technologies.

As 23% of Oregon's population is rural, the ability to effectively use collaborative technologies at a distance is paramount. The E-SMART acronym reflects the technology infrastructure that is critical to this initiative.

- E – **E**-learning outreach using a web-based learning system foundation
- S – **S**imulation, using both micro-worlds and mannequin-based simulations
- M – **r**ich **M**edia, which includes interactive case-based scenarios, animations
- A – **A**synchronous learning to help shift time and place bound students and increase inter-professional communication
- R – **R**ead-time learning through web-conferencing and intensive face-to-face time
- T – **T**elehealth onsite use and practice linking rural practicum sites to the urban university and hospitals to provide diagnostics and consultation.

In addition to the creation of new educational experiences for students, the funds will also be used to develop a faculty mentorship program that relies on experienced faculty with good student and peer evaluations as pedagogical and practice mentors, and designated "faculty technology leaders" as mentors in using integrated technologies within education. Additionally, the funds will be used to provide faculty development opportunities statewide by using the same technologies we will ask them to use with students, thus providing them with the experience of being students as well as faculty members. These will include the use of technologies in the classroom, at a distance, in simulations, and in clinical settings.

By leveraging the services offered by the Area Health Education Centers around Oregon and the new network infrastructure provided by the Oregon Health Network through a ~\$20 million grant from the FCC in 2008, it will be possible to deliver high quality educational experiences to students, and by association their preceptors, in many rural areas throughout the state. This will help demonstrate that it is possible to obtain intellectually stimulating peer interactions even in the remotest of locations and make practicing in rural areas a more attractive option to dental, medical and nursing students when they chose where they want to work.

The E-SMART project's curriculum and faculty development opportunities will not only have significant impacts on future healthcare professionals by deepening the understanding of the role each profession plays in overall patient care, but most importantly the project will improve patient care access, quality and delivery.

**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.**

No

**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):**

Department of Education: FIPSE

**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?**

*Purpose:* Research generally suggests that interdisciplinary health care teamwork improves patient care through better clinical outcomes and increased patient satisfaction. The most effective way to build a team based model for practice is to develop a collaborative interdisciplinary clinical skills education model for students of medicine, nursing and dentistry. The ESMART Collaborative aims to improve the health and well being of Oregonians by leveraging technology and unique interdisciplinary education models to teach the state's future healthcare professionals how to work more effectively and efficiently in teams.

Data suggests that isolation from professional colleagues is often a reason physicians leave their practices in rural areas or decide to choose a job in a large urban area over a rural one. By extending the delivery of this educational program into rural areas we hope to convince the healthcare professionals of the future that it is possible to gain intellectually stimulating experiences and remain connected with colleagues even in the most remote parts of the State.

*Value to Taxpayers:* The health care labor shortage in the United States has been widely documented and is expected to last through 2050. Almost half of the health care workforce will be 45 years old or older by 2008. By 2010, 40% of all registered nurses will be 50 years old or older, and the US will need 1.7 million nurses but only 635,000 will be available. One of the most prevalent obstacles rural Americans face in accessing timely and appropriate primary health care

services is the maldistribution and shortage of health professionals to provide needed services. The changing health care environment, particularly in rural Oregon, demands that we create new ways to meet community and individual taxpayer needs.

***Improve Economy:*** The changing health care environment, particularly in rural Oregon, demands that we create new ways to meet community and individual needs. OHSU's activities in Oregon's rural communities are guided by the Center for Rural Health, which serves as a focal point for our outreach efforts. By developing, implementing and refining a model that integrates comprehensive patient care with the specialized education of rural health nurses, doctors and other medical service providers, the Center's services can help stabilize rural Oregon community populations since ongoing quality, coordinated healthcare services will be ensured.

The presence of healthcare workers in rural communities can have a significant impact on their economy. For example, a study in Oklahoma showed that the presence of a single rural primary care physician generates approximately \$1.5 million in revenue, \$0.9 million in payroll and creates 23 jobs in both the physician clinic and the local hospital. This assessment likely underestimates the total value of a rural primary care physician, as their impact on other sectors such as pharmacy and nursing homes is not included. Moreover, the high-tech jobs provided by rural hospitals and physician clinics often convinces young people to remain who might otherwise leave communities heavily dependent upon agriculture.

A recent study by the Robert Graham Center for Policy Studies evaluated the impact of family physicians on a state-by-state basis. These figures do not account for a family physician's contribution to the generation of income for other local health care organizations such as hospitals and nursing homes. The study found that in Oregon, family physicians have an economic impact of \$853,226 per doctor, per year. The total impact of family physicians in Oregon is estimated to be \$852,373,048 per year.

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

Yes; all members of the Oregon delegation.

**11. Funding Details:**

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

\$1,420,000 for two years, FY 2010 and 2011

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

\$710,000 for FY 2010

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

None.

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

Yes

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

|  |           |
|--|-----------|
| Salaries (4.5 FTE)   | \$617,000 |
| Desktop computer equipment   | \$15,000  |
| Desktop software   | \$17,000  |
| Communications costs   | \$8,000   |
| Office/admin/training supplies   | \$23,000  |
| Travel   | \$15,000  |
| Hosted services (web conf,<br>learning management, virtual environments) | \$15,000  |

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

OHSU Board of Directors  
Keith L. Thomson – Chairman  
Keith\_Thomson@msn.com Phone: (503) 645-2919  
Fax: (503) 533-4763

OHSU Board of Directors  
Scott Gibson – Vice Chairman  
sgibson@easystreet.com Phone: (503) 222-2019

OHSU Foundation  
Robert D. Kraus – Chairman  
rdkllk@worldnet.att.net Phone: (503) 635-3032

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

The project has been designed in such a way that should partial funding be provided the scope of what is proposed can be adjusted appropriately. For example, the number of modules developed could be easily decreased as could the number of sites to which the educational material was delivered.

**Please return this form no later than February 13, 2009 (via email) to:**

[appropriations.blumenauer@mail.house.gov](mailto:appropriations.blumenauer@mail.house.gov)