



STARMETRICS at OHSU

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Background on OHSU

- OHSU is a non-profit public corporation and is the state's sole academic medical center.
- As a public corporation, OHSU receives yearly appropriation from the state which helps support our legislatively mandated public missions.
- Although it is a public entity, OHSU must raise its own capital funds and therefore maintains a better than A-grade rating from S&P, Moodys and Fitch in order to access the debt market in a cost-effective manner.
- OHSU therefore spends a significant amount of time describing its economic picture to a variety of stakeholders in addition to explaining the effectiveness of its public missions of teaching, healing and discovery.

OHSU Recent Annual Highlights

- **Budget:** \$1.9B
- **Research:** \$392M in research awards
- **Academic:** 2,721 students; 780 residents/trainees
- **Philanthropy:** \$78.4M from 16,200 contributions
- **Employees:** 13,350
- **Facilities:** 6.9M square feet
- **Impact:** Every \$1 Oregon invests in OHSU returns \$32 in gifts, grants, contracts and service funds

OHSU FY 10 Total Research Awards

\$391,672,316

Research	307,400,346	NIH	263,440,513
Clinical Trials	40,549,520	Other Federal	61,648,300
Instruction	4,779,605	Non-Fed. Govt.	3,630,213
Other	38,942,845	Industry	37,916,773
		Private	25,036,517

*To date OHSU has received over \$100 Million in competitive ARRA awards

STARMETRICS and Key Stakeholders

- Some Key Stakeholders
 - State Legislators
 - Federal Delegations
 - City of Portland
 - Philanthropic Supporters
 - Investors
- We have incorporated data provided in the STARMETRICS Report in our presentations to supplement data generated from other sources to help message
 - Economic Impact of OHSU on Portland and Oregon
 - Importance of Federal Research Funding to Oregon's Economy
 - Importance of Federal Research Funding to OHSU's public missions
 - Leverage power for supporting OHSU research activities

OHSU Economic Impact

Table 1: Total Gross and Net Economic Impacts in Portland's Economy
(in 2009 dollars)

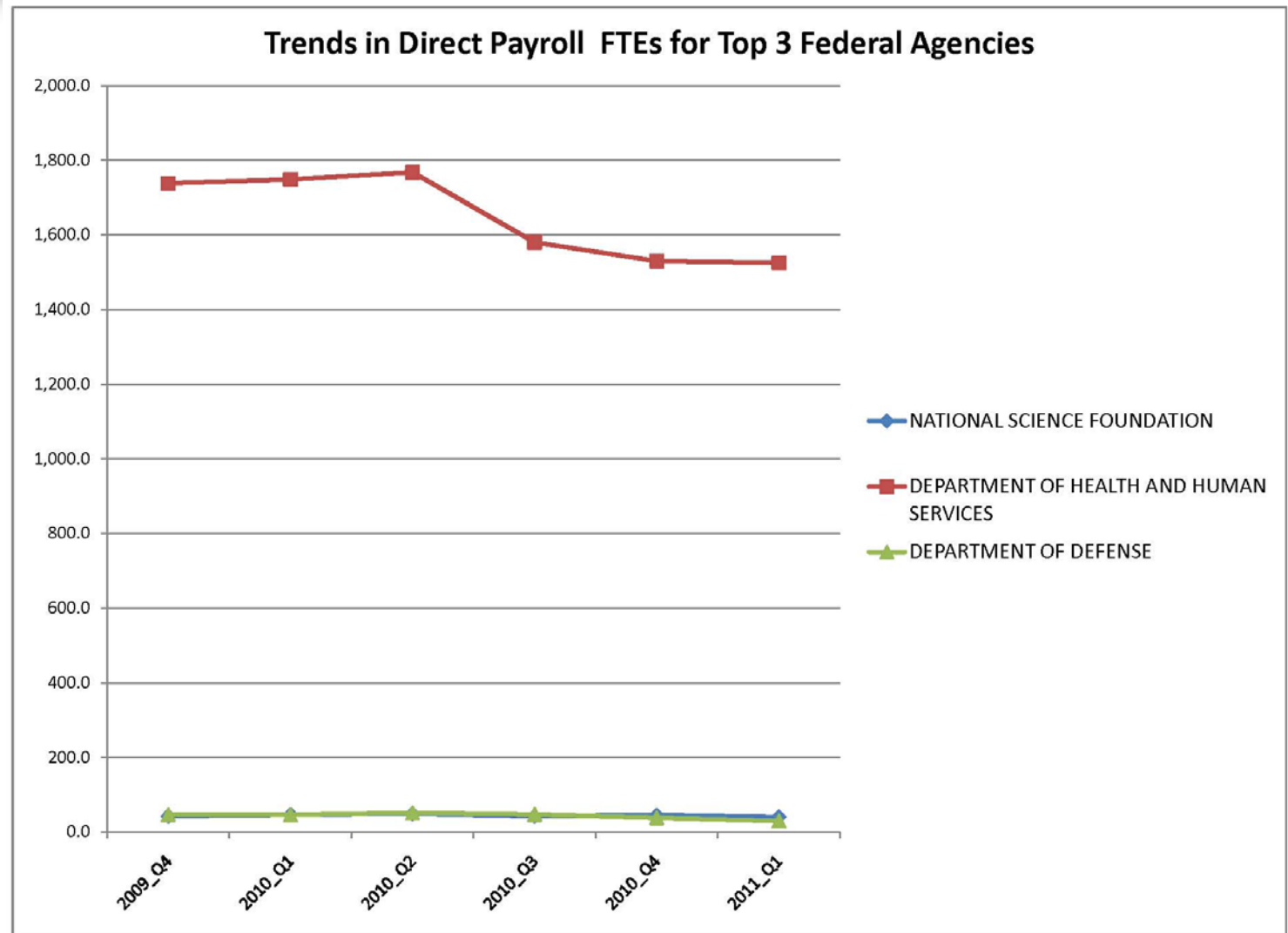
PORTLAND			
Type of Impact	Direct Impacts	Total Impacts	Multiplier
Gross Impacts			
Output	\$1,600,694,000	\$3,643,549,000	2.28
Personal Income	\$935,036,000	\$1,723,871,000	1.84
Jobs	13,925	32,561	2.34
Net Impacts			
Output	\$1,038,332,000	\$2,376,717,000	2.29
Personal Income	\$579,926,000	\$1,096,514,000	1.89
Jobs	8,617	20,748	2.41

Table 2: Total Gross and Net Economic Impacts in Oregon's Economy
(in 2009 dollars)

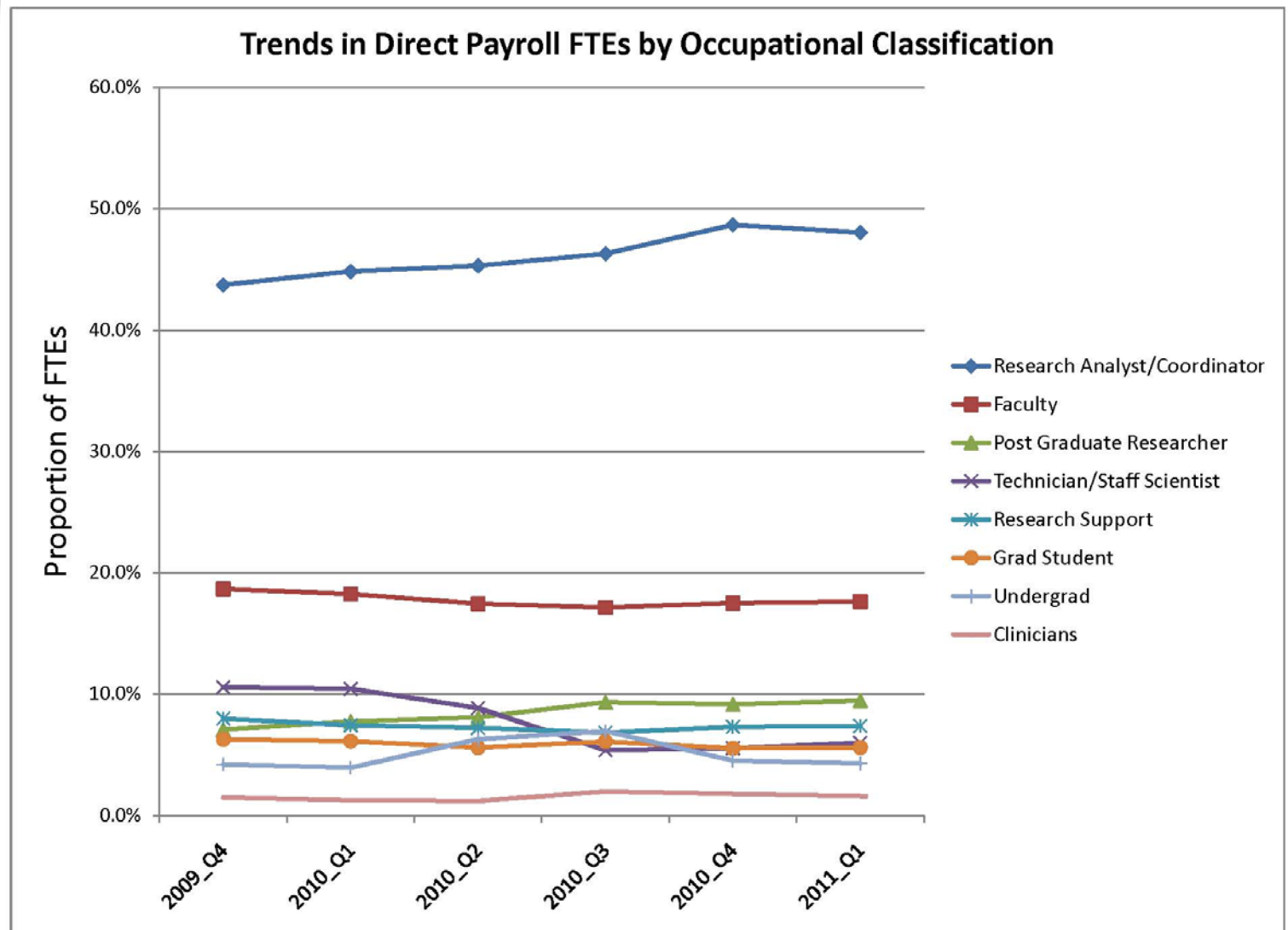
OREGON			
Type of Impact	Direct Impacts	Total Impacts	Multiplier
Gross Impacts			
Output	\$1,625,395,000	\$3,855,706,000	2.37
Personal Income	\$949,568,000	\$1,802,402,000	1.90
Jobs	14,123	34,614	2.45
Net Impacts			
Output	\$1,000,518,000	\$2,350,761,000	2.35
Personal Income	\$554,981,000	\$1,072,026,000	1.93
Jobs	8,251	20,625	2.50

Source: ECONorthwest IMPLAN analysis.

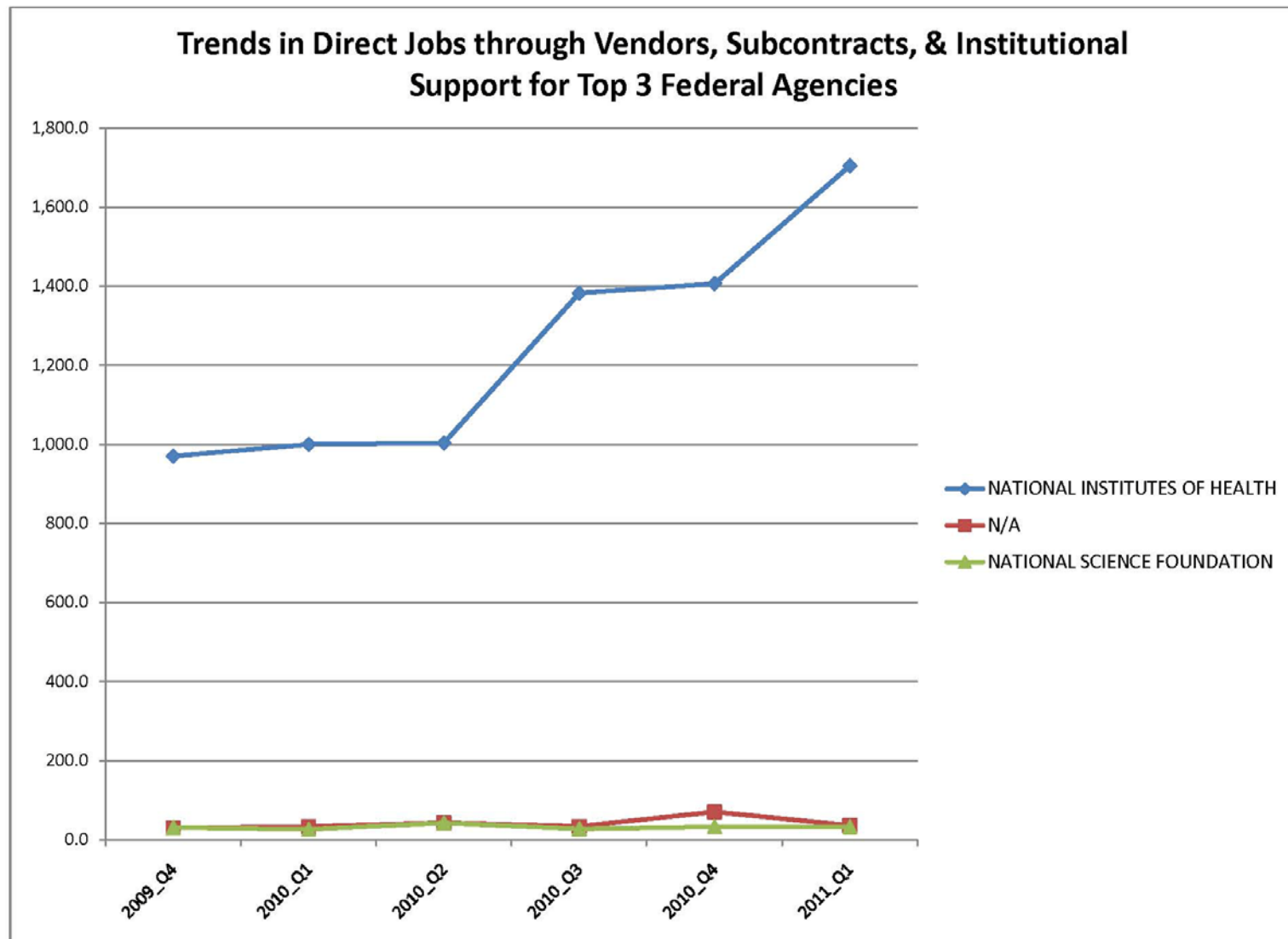
Jobs Created at OHSU by Federal Funding



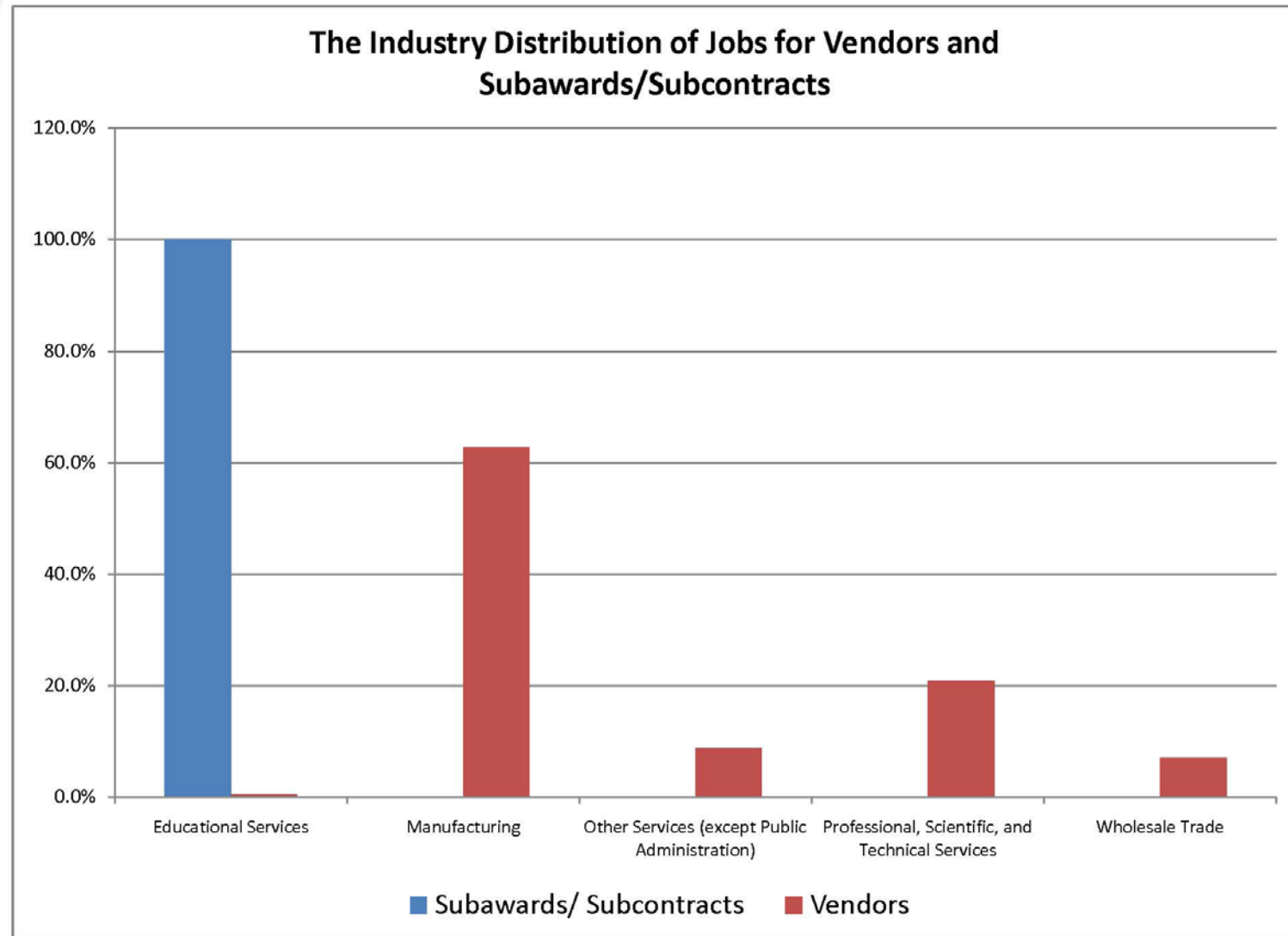
Who is working in research?



Other Jobs Created through OHSU Federal Funding



Job Creation

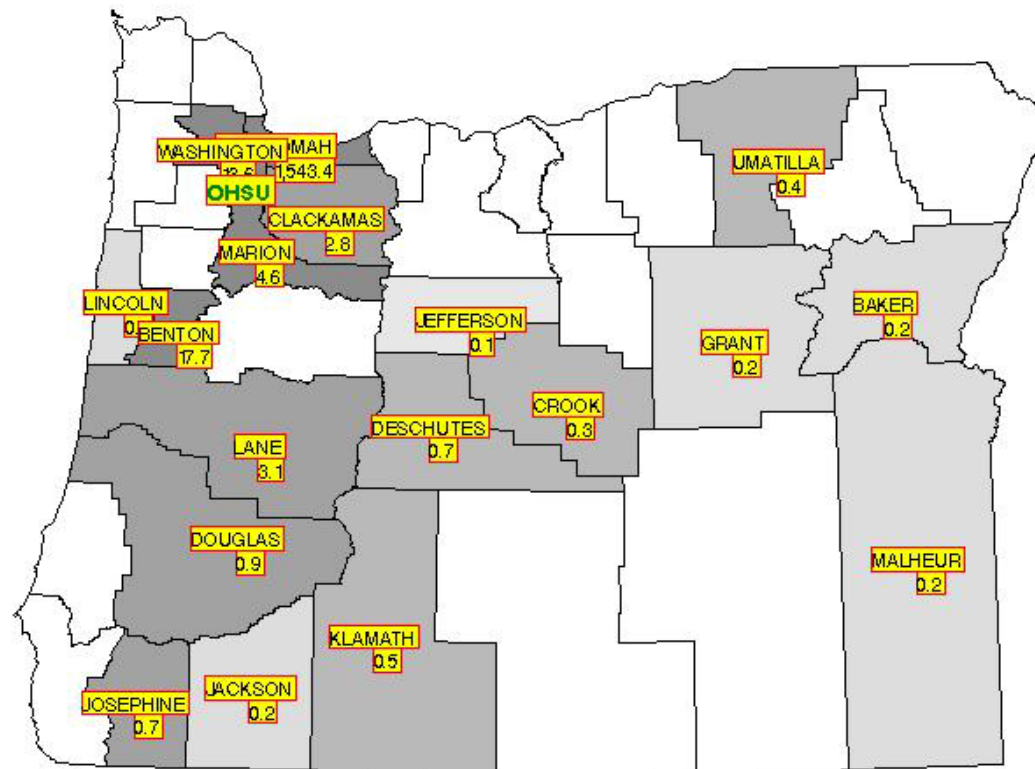


Local Economic Impact – Total Jobs

Local Economic Impact

for OREGON HEALTH AND SCIENCE UNIVERSITY

Direct Jobs through Vendor, Subawards, Subcontracts, Institutional Support

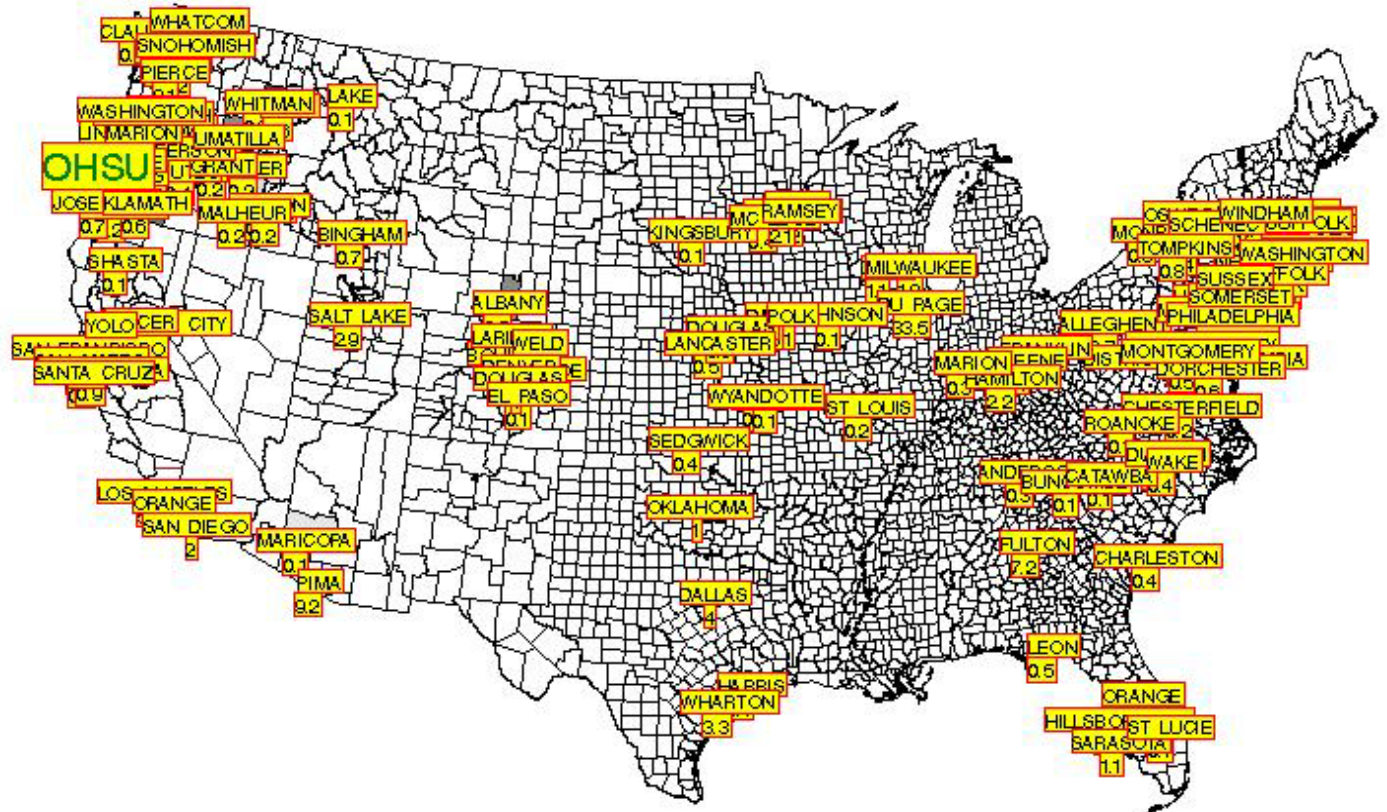


National Economic Impact – Total Jobs

National Economic Impact

for OREGON HEALTH AND SCIENCE UNIVERSITY

Direct Jobs through Vendor, Subawards, Subcontracts, Institutional Support



Summary

- We have only begun to explore the utility of the data that is returned to us in the Jobs Report
- Focused exclusively on presenting information to external stakeholders
- To date stakeholders have been very receptive to the information we have presented
- We have started to think about how Level 1 data may be processed for internal analysis of our research portfolio – topic modeling
- We would be very interested in peer comparisons

Questions

- How many people are actively participating in Level 1 ?
- How are others using the data differently from what we have described today?
- How many have done integrity checks on the data received in the reports?
- How can broader participation in Level 1 be achieved?
 - Are the reports useful?
 - What would make the data more useful?
- Would topic modeling at the institutional level be of interest?
- Would a more interactive visualization similar to the R&D dashboard be useful?

Jobs by Sector

Table 3: Net Indirect Output and Jobs Generated by OHSU Operations, by Industry Sector

Industry Sector	Indirect Jobs	Percent of total
Professional and technical services	818	22%
Administrative and waste services	1,443	39%
Manufacturing	138	4%
Healthcare and social services	186	5%
Real estate and rentals and leasing	110	3%
Retail trade	275	7%
Construction	114	3%
Information	48	1%
Other Services	86	2%
Agriculture, forestry, fishing and hunting	440	12%
All other sectors	65	2%
TOTAL	3,723	100%

Source: ECONorthwest IMPLAN analysis.

OHSU Research Funding Impact

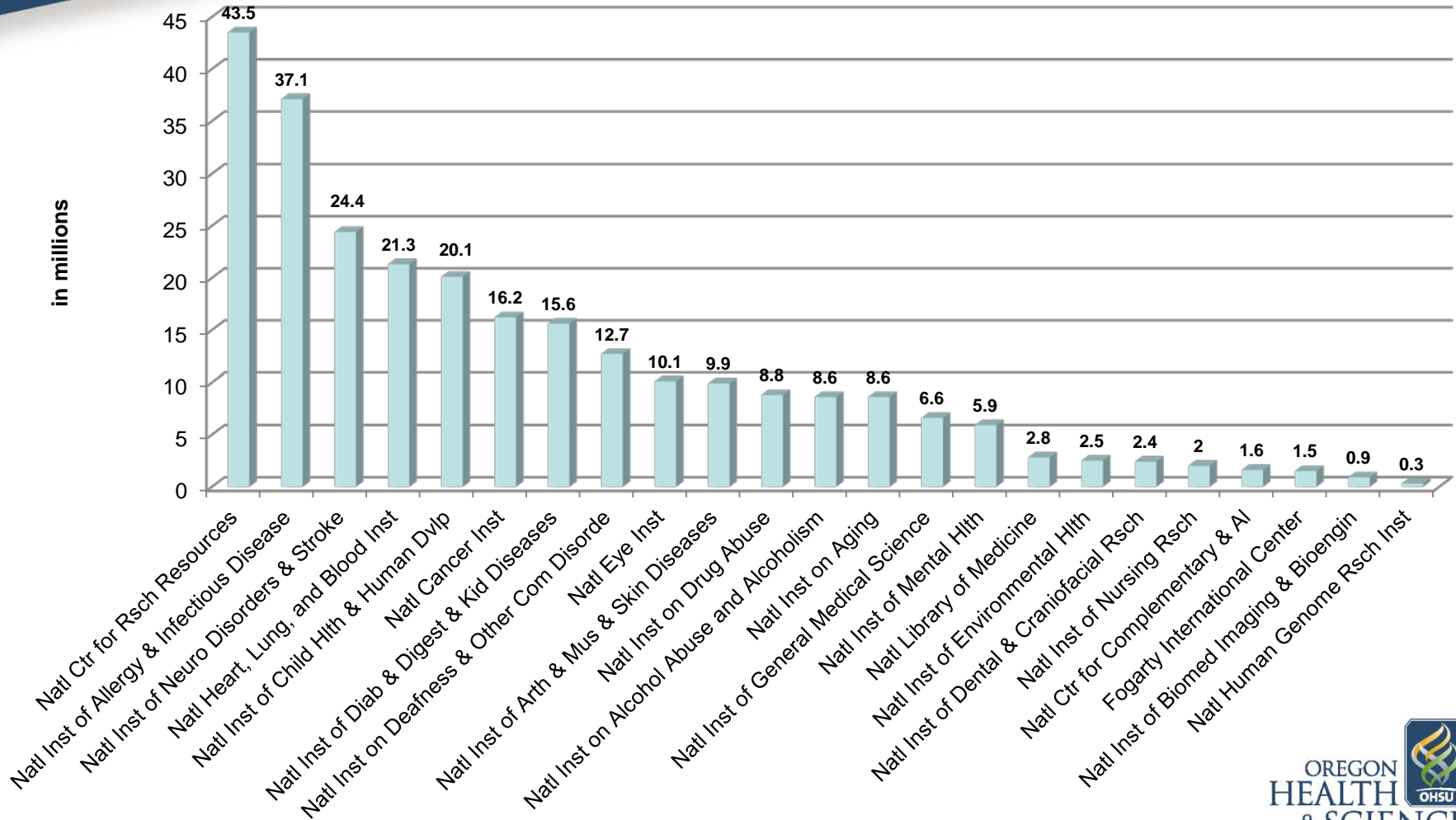
- OHSU researchers were awarded \$322 million in FY 2010 (excluding \$70 million in ARRA funds), 94% of which came from out of state.
- Research grants are like small businesses, requiring new staff, services, and equipment—as well as generating tax revenues for the state.
- Oregon's research grants from NIH are estimated* to have a 2.13 “business multiplier effect”—for every dollar awarded, the institution generates an additional \$2.13 for Oregon's economy. Using this multiplier, OHSU NIH-funded research contributed ~\$561 million to the state's economy in FY2010.

*Families USA Report “In your own backyard: How NIH funding helps your state's economy”, 2008.

<http://familiesusa2.org/assets/pdfs/global-health/in-your-own-backyard.pdf>

NIH Institute Support

FY 10 NIH Awards \$263.4M



Technology and Research Collaborations

OHSU Startups:

- Since 2000, OHSU research has resulted in 43 startup companies
- 35 of these companies were started in Oregon and 30 are still in existence today
- 74 total companies since the early 1970s

2010

Aronora†
Gamma Therapeutics†
Odyssey Science
Innovations

2009

APDM
DeltaPoint*
Receptor Therapeutics

2008

Transmed Oncology
Cascade Lifesciences
Genefac
Flash Sensor Tech*

2007

Molecular MD
I D Biopharma
Yecuris†
Cylerus†
Portland Bioscience

2006

Acute Innovations
SimHealth†
NeuroProtect*

* Companies funded by the BioScience Innovation Program

† Companies funded by the Springboard Program