Presenta4on  
  to  
  the  
  Joint  
  Finance-­‐  
  Appropria4ons  
  Commi>ee  
Robert  
  Kustra,  
  President  
Jan.
  22,  
  2014
Boise State serves a very different region and state than just a few years ago. Technology plays a far bigger role than ever before.

- Over 48,000 workers in Idaho are employed in technology.
- Between 2000 and 2010, the number of high-tech companies in Idaho grew by 61 percent.
- Statewide, technology accounts for 17 percent of all wages earned ($3.4 billion).

Serving Idaho's Changing Economy
Idaho’s hot jobs for 2010-2020 are abundant, fast growing and high paying.

<table>
<thead>
<tr>
<th>Occupation</th>
<th>Annual Openings</th>
<th>Median Hourly Wage</th>
<th>Projected Employment</th>
<th>Growth in Number / %</th>
</tr>
</thead>
<tbody>
<tr>
<td>Registered Nurses</td>
<td>675</td>
<td>$28.24</td>
<td>16,386</td>
<td>4,661 / 40.44%</td>
</tr>
<tr>
<td>Medical and Health Services Managers</td>
<td>73</td>
<td>$34.59</td>
<td>1,978</td>
<td>455 / 29.88%</td>
</tr>
<tr>
<td>Physical Therapists</td>
<td>40</td>
<td>$34.27</td>
<td>1,453</td>
<td>424 / 41.21%</td>
</tr>
<tr>
<td>Dental Hygienists</td>
<td>40</td>
<td>$34.10</td>
<td>1,173</td>
<td>365 / 30.22%</td>
</tr>
<tr>
<td>Pharmacists</td>
<td>105</td>
<td>$32.13</td>
<td>1,726</td>
<td>322 / 22.93%</td>
</tr>
<tr>
<td>Software Developers, Applications</td>
<td>53</td>
<td>$30.83</td>
<td>1,697</td>
<td>391 / 29.94%</td>
</tr>
<tr>
<td>Management Analysts</td>
<td>27</td>
<td>$42.95</td>
<td>2,706</td>
<td>540 / 24.91%</td>
</tr>
<tr>
<td>Physicians and Surgeons, All Other</td>
<td>11</td>
<td>not available</td>
<td>42</td>
<td></td>
</tr>
<tr>
<td>Network and Computer Systems</td>
<td>49</td>
<td>$29.76</td>
<td>1,406</td>
<td>312 / 28.52%</td>
</tr>
<tr>
<td>Administrators</td>
<td>71</td>
<td>$23.39</td>
<td>1,479</td>
<td>427 / 40.59%</td>
</tr>
<tr>
<td>Market Research Analysts and</td>
<td>71</td>
<td>$23.39</td>
<td>1,479</td>
<td>427 / 40.59%</td>
</tr>
<tr>
<td>Marketing Specialists</td>
<td>40</td>
<td>$29.19</td>
<td>1,774</td>
<td>215 / 22.42%</td>
</tr>
<tr>
<td>Radiologic Technologists and</td>
<td>60</td>
<td>$21.11</td>
<td>1,630</td>
<td>356 / 27.94%</td>
</tr>
<tr>
<td>Technicians</td>
<td>56</td>
<td>$24.46</td>
<td>1,399</td>
<td>399 / 39.90%</td>
</tr>
<tr>
<td>Family and General Practitioners</td>
<td>53</td>
<td>$24.46</td>
<td>918</td>
<td>179 / 24.22%</td>
</tr>
<tr>
<td>Physician Assistants</td>
<td>27</td>
<td>$80.60</td>
<td>732</td>
<td>167 / 29.56%</td>
</tr>
<tr>
<td>Licensed Practical and Licensed</td>
<td>153</td>
<td>$18.22</td>
<td>3,609</td>
<td>770 / 27.12%</td>
</tr>
<tr>
<td>Vocational Nurses</td>
<td>12</td>
<td>not available</td>
<td>1,200</td>
<td>1,200 / 17.24%</td>
</tr>
</tbody>
</table>

Legend:
- **Projected Employment**: Annual Openings
- **Median Hourly Wage**: $18.22
- **Postsecondary Non-Degree Award**: 153

Explore careers at labor.idaho.gov/careers and see more job growth projections at lmi.idaho.gov.
Select New Degrees in Past 10 Years to Meet Economic Demands

- Materials Science (MS, PhD)
- Computer Engineering (MS)
- Electrical Engineering (MS)
- Electrical & Computer Engineering (PhD)
- Mechanical Engineering (MS)
- Management Information Systems (MS)
- Information Technology Management (MBA)
- STEM Education (MS)
- Nursing (MS, DNP)
- Nursing (BS – Distance)
- Radiologic Sciences (BS)
- Health Sciences Studies (BS – includes emphases in leadership and health policy or health informatics, among others)
- Kinesiology (BS-Pre Professional, MS)
- Biomolecular Science (PhD)

Serving Idaho’s Changing Economy

Select New Degrees/Certificates planned in the next Few Years to Meet Economic Demands

- Computer Systems Engineering (BS)
- Bioinformatics (BS/MS *joint program with ISU)
- Business Intelligence (Certificate)
- Biomedical Sciences (BS)
- Biomedical Engineering (MS)
- MBA with Health Care Emphasis
- Computer Science (PhD)
In the past five years we have:

• Increased nursing bachelor’s and master’s degree graduates by more than 300 percent
• Doubled our graduates in biology, chemistry and pre-medical studies
• Boosted our mechanical engineering graduates by 50 percent
• Doubled our computer science BS and MS graduates

Serving Idaho’s Changing Economy
As Micron has evolved so too has Boise State University

• $6 million for an engineering complex (1996)
• $2 million for Materials Science program (2003)
• $5 million for Electrical and Computer Engineering PhD (2004)
• $13 million for Materials Science and Engineering PhD (2011)
• $12 million for Business & Economics Building (2012)

Serving Idaho’s Changing Economy
State Board of Education Goal: 60% of Idahoans between the ages of 25-34 attain a postsecondary degree or credential by 2020. Currently, only 39% of Idahoans between 25-34 years of age have a postsecondary degree or credential.
Boise State awards more than 40% of all public university bachelor’s degrees in Idaho.

- **1934:** 25 grads
- **1993:** 1,819 grads
- **2003:** 2,364 grads
- **2013:** 3,757 grads!
A-List colleges and universities deliver the best academic and economic value to students, while admitting a high percentage of applicants.

Boise State University

**#15**
OVERALL IN-STATE TUITION A-LIST RANKING

**#7**
WEST REGIONAL IN-STATE TUITION A-LIST RANKING

**TOP 50**
OVERALL OUT-OF-STATE TUITION A-LIST RANKING
Where Idaho High School 2012 Graduates Went To College
Striving for New Ways to Inspire, Educate and Prepare Students

Venture College
• A chance for students to start their own businesses
• More than 200 local leaders mentor and assist

Foundational Studies
• Critical thinking
• Problem-solving and inquiry
• Ethics
• Written and oral communications
• Innovation and teamwork

E-Portfolios
• Show what they have learned
• Bridge the gap between college and career
• Create relationships with employers and opportunities for internships
• Connect what employers want with what faculty teach
• Provide career/job outlook information to freshman to help them as they choose a major

Career Center
State General Fund Contribution:
FY 2002: $73.5 million (enrolled 18,431 and produced 2,364 graduates)
FY 2014: $77.7 million (enrolled 22,638 and produced 3,757 graduates)

Boise State receives the lowest per-student share of state general fund dollars, but produces the highest number of graduates each year.

A Highly Efficient University
## FY 2015 Budget Request

**LBB 1-59 thru 1-66**

<table>
<thead>
<tr>
<th>Request</th>
<th>Total</th>
<th>Governor’s Recommendation</th>
</tr>
</thead>
<tbody>
<tr>
<td>CEC Increase 1%</td>
<td>$3,204,100</td>
<td></td>
</tr>
<tr>
<td>CEC/Benefit Shift to General Fund</td>
<td>$3,687,100</td>
<td></td>
</tr>
<tr>
<td>60% Goal</td>
<td>$14,006,200</td>
<td>$5,000,000</td>
</tr>
<tr>
<td>Occupancy Costs</td>
<td>$421,300</td>
<td>$421,300</td>
</tr>
<tr>
<td>Higher Education Research Council</td>
<td>$400,000</td>
<td>$200,000</td>
</tr>
<tr>
<td>Deferred Maintenance</td>
<td>$12,500,000</td>
<td></td>
</tr>
<tr>
<td>Center for Advanced Energy Studies</td>
<td>$1,000,000</td>
<td></td>
</tr>
</tbody>
</table>
Challenge: Meeting the 60% Goal

Carnegie Basic Classification

- Master's-Large: 26.7
- Doctoral/Research: 24.5
- Research-High: 23.1
- National Average: 22.6

Data source: IPEDS Fall 2011 (public universities)
Challenge: Meeting the 60% Goal

72 new full-time positions needed to decrease Boise State’s ratio to midpoint between average of Master’s-Large and Doctoral/Research.

24.5
23.1
22.6

Master's-Large
Boise State
Doctoral/ Research
Research-High

Carnegie Basic Classification
Challenge: Meeting the 60% Goal

National Academic Advising Association Recommended Minimum: 300
Boise State University: 578
Challenge: Meeting the 60% Goal

- National Academic Advising Association Recommended Minimum: 300
- Boise State University: 578

12 new professional advisor positions needed to reach the recommended minimum
The Value of a College Degree

Education beyond high school means higher wages, more promotional opportunities and fewer chances of becoming unemployed. Education and training really do pay!

### Earnings by Education

<table>
<thead>
<tr>
<th>Education Level</th>
<th>Hourly Mean Wage</th>
<th>Hourly Entry Wage++</th>
</tr>
</thead>
<tbody>
<tr>
<td>Doctoral or professional degree</td>
<td>$47.16</td>
<td>$29.42</td>
</tr>
<tr>
<td>Master's degree</td>
<td>$29.58</td>
<td>$19.70</td>
</tr>
<tr>
<td>Bachelor's degree</td>
<td>$26.53</td>
<td>$17.81</td>
</tr>
<tr>
<td>Associate degree</td>
<td>$24.73</td>
<td>$18.55</td>
</tr>
<tr>
<td>Some college, no degree</td>
<td>$17.19</td>
<td>$10.26</td>
</tr>
<tr>
<td>Postsecondary non-degree award</td>
<td>$14.89</td>
<td>$10.61</td>
</tr>
<tr>
<td>High school diploma or equivalent</td>
<td>$16.25</td>
<td>$11.10</td>
</tr>
<tr>
<td>Less than high school</td>
<td>$10.65</td>
<td>$8.37</td>
</tr>
</tbody>
</table>

### Earnings over a Lifetime*

- Doctoral or professional degree: $5,280,000
- Master's degree: $3,721,000
- Bachelor's degree: $3,610,000
- Associate degree: $3,629,000
- Some college, no degree: $2,636,000
- Postsecondary non-degree award: $2,194,000
- High school diploma or equivalent: $2,508,000
- Less than high school: $1,665,000

### Difference

$1,102,000

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*Lifetime earnings take into account opportunity costs, entry wage earnings in the onset years of a career, median earnings in the later years and average wage inflation of 2.5 percent over a 49-year career.

++Average wage paid to those in the bottom third of workers in an occupation.

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Idaho’s Career Information System helps people of all ages make informed career decisions with information about occupations, careers, postsecondary education, financial aid and finding jobs.

Idaho Department of Labor
C.L. “Butch” Otter, Governor
Kenneth D. Edmunds, Director

For detailed information on Idaho occupations, wages and employment levels, visit us on the Web at:

labor.idaho.gov/careerinfo

The Idaho Department of Labor is an equal opportunity employer and service provider. Reasonable accommodations are available upon request. Dial 711 for TTY Idaho Relay Service.

9/2013
The Value of a College Degree

Change in employment since the start of the recession

DEC. 2007 - APRIL 2013

- College graduates +9%
- Some college 0%
- High school graduates -9%
- Less than high school -14%

Source: Bureau of Labor Statistics
The Class of 2017 celebrated their first day on campus with a new tradition - ‘The Bon The Blue’