

BOARD OF REGENTS  
BRIEFING PAPER

**1. Agenda Item Title: UNR Performance Metrics Presentation**

**Meeting Date: March 3-4, 2016**

**2. BACKGROUND & POLICY CONTEXT OF ISSUE:**

The Board of Regents of the Nevada System of Higher Education has asked each of its institutions to provide institutional performance metrics of accountability. President Marc Johnson will make a presentation, with supporting materials, on behalf of the University of Nevada, Reno.

**3. SPECIFIC ACTIONS BEING RECOMMENDED OR REQUESTED:**

President Johnson presents for information the University of Nevada, Reno's Performance Metrics.

**4. IMPETUS (WHY NOW?):**

Chairman Trachok and Regent Page had asked that the University of Nevada, Reno and Nevada Southern College make their performance metrics presentation at the March Board meetings to give the board the opportunity to have a focused discussion regarding each of these institutions.

**5. BULLET POINTS TO SUPPORT REQUEST/RECOMMENDATION:**

The University of Nevada, Reno is a high-performance university focusing on learning, research and engagement. The University is ranked by the U. S. News and World Report as a top tier national research university in its "Best Colleges" edition annually. The Carnegie Foundation for the Advancement of Teaching classifies the University as a "Comprehensive Doctoral, Arts and Sciences/Professions—Balanced, High Research University." In terms of the University's impact on the economy of Nevada, it is a half-billion dollar non-profit enterprise and one of northern Nevada's largest employers, serving as a base industry bringing economic resources into the economy with research grants and tuition dollars, providing well-paying jobs, creating human capital with university degrees, generating new knowledge some of which is commercialized, and attracting industry to the state.

The University has achieved accountability metrics at record levels in the University's history with great prospects for continuing to improve performance. These accountability metrics show that the University is increasing in attractiveness to well-qualified students of all backgrounds, that graduation rate is growing and time to graduation is shortening, research is growing, community recognition and support is growing, and national recognitions bring a positive reputation to Nevada.

The University's goal is to develop an Advanced Manufacturing Research Enterprise which includes:

- Increasing Graduates for the Workforce
- Growing Research Portfolio from \$88M to \$180M
- Increasing and Retaining Faculty
- Reducing Student to Faculty Ratio
- Building the Ph.D. Pipeline
- Building Research Support Capacity
- Increasing Office and Laboratory Space Capacity
- Engineering Complex

Other challenges include:

- Recruiting and Retaining All Faculty and Students with a focus on Diversity
- Transitioning University of Nevada School of Medicine to a full, four-year medical school in Reno
- Adapting to Higher Education Delivery Trends
- Financing Athletics

**6. POTENTIAL ARGUMENTS AGAINST THE REQUEST/RECOMMENDATION:**

No action is requested nor are recommendations being made.

**7. ALTERNATIVE(S) TO WHAT IS BEING REQUESTED/RECOMMENDED:**

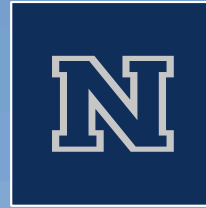
No action is requested nor are recommendations being made.

**8. COMPLIANCE WITH BOARD POLICY:**

- Consistent With Current Board Policy: Title #\_\_\_\_ Chapter #\_\_\_\_ Section #\_\_\_\_
- Amends Current Board Policy: Title #\_\_ Chapter #\_\_ Section #\_\_\_\_
- Amends Current Procedures & Guidelines Manual: Chapter #\_\_\_\_ Section #\_\_\_\_
- Other: \_\_\_\_\_
- Fiscal Impact: Yes \_\_\_\_ No X\_\_\_\_  
Explain: \_\_\_\_\_

# Performance Metrics

Marc Johnson • March 3-4, 2016



University of Nevada, Reno





# WHO WE ARE

- National Tier 1 University\* remarkable for
  - culture of student success
  - world-improving research
  - community engagement
- 4,000 graduates each year
- Carnegie doctoral arts and sciences balanced research R-2
- Emerging Hispanic Serving Institution
- Military Friendly
- NCAA Division 1A

\* U.S. News & World Report

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# BIG GOALS

Respond to enrollment growth with quality, experiential learning and move toward a student-to-faculty ratio of peer median, 18:1

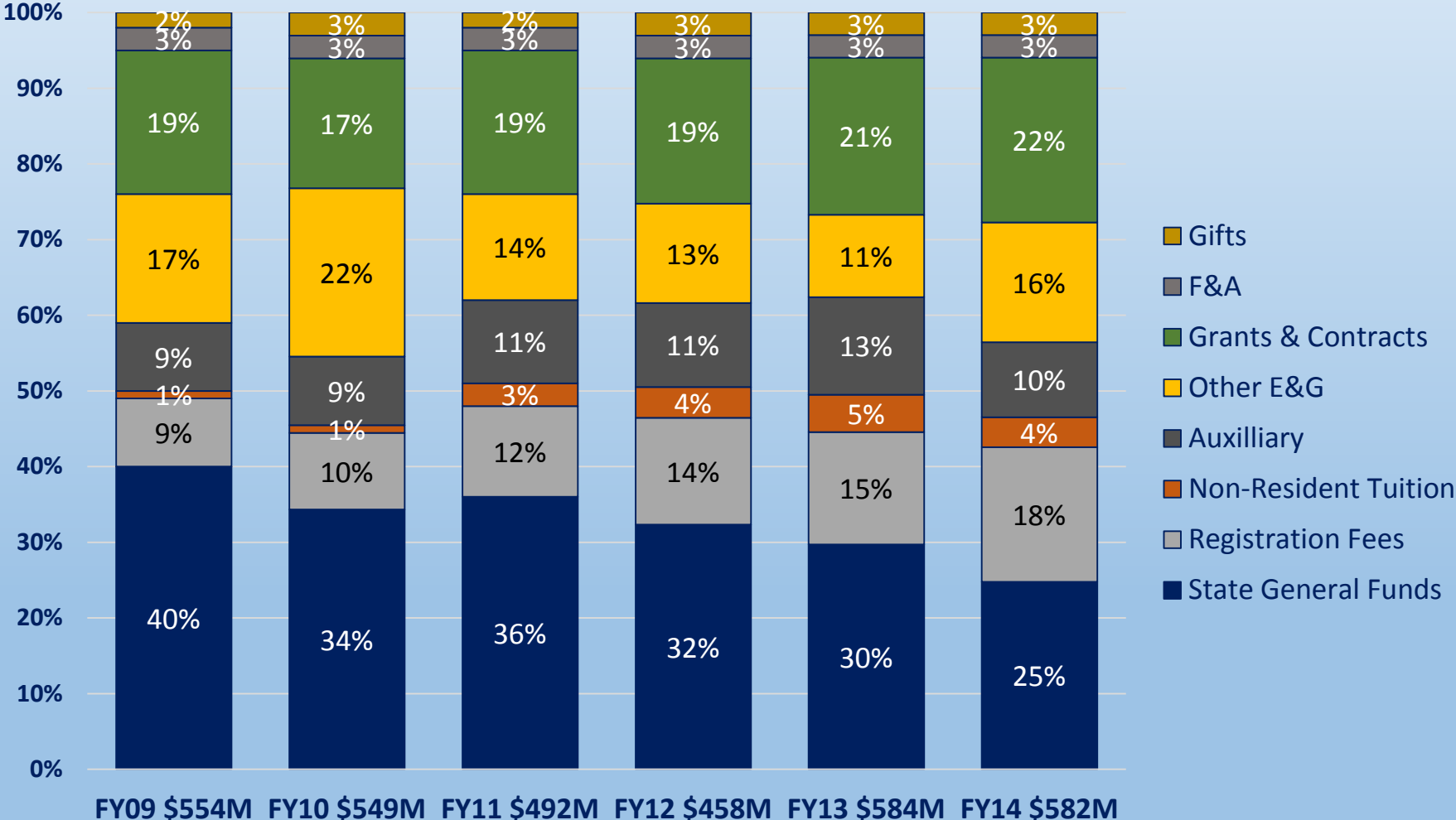
High impact research university measured by the Carnegie classification R-1

Serve as a pillar of economic development in the New Nevada

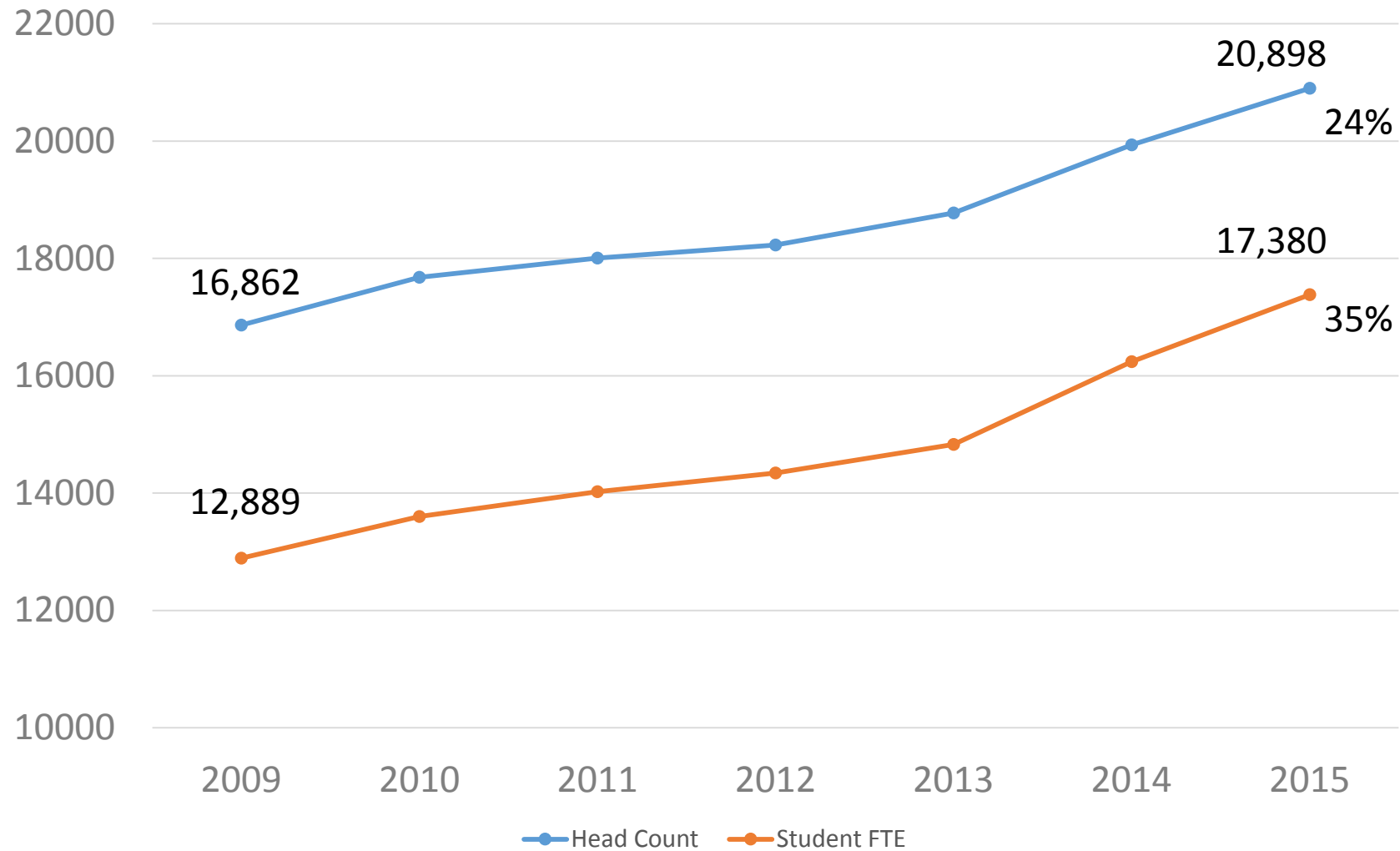


# REVENUE

## University of Nevada, Reno Gross Revenue Sources: All Funds



# High Impact Research University - Enrollment





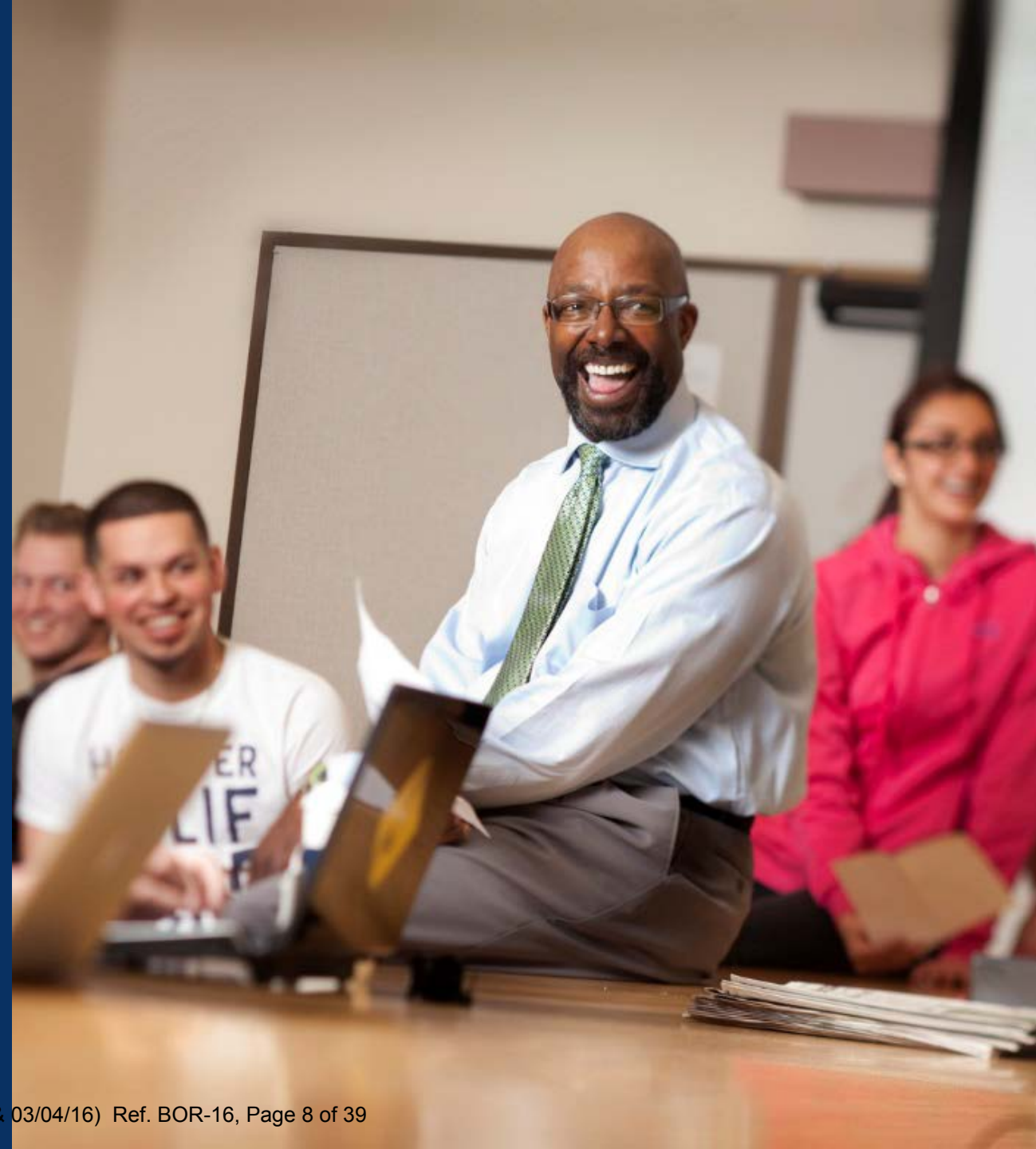
# NEW ACADEMIC FACULTY

Goal for Fall of 2014 to Fall of 2020: 400 new faculty

- Positions allocated for Fall of 2014 – 30
- Positions allocated for Fall of 2015 – 41
- Positions allocated for Fall of 2016 – 60
- Total allocated positions – 131



University of Nevada, Reno





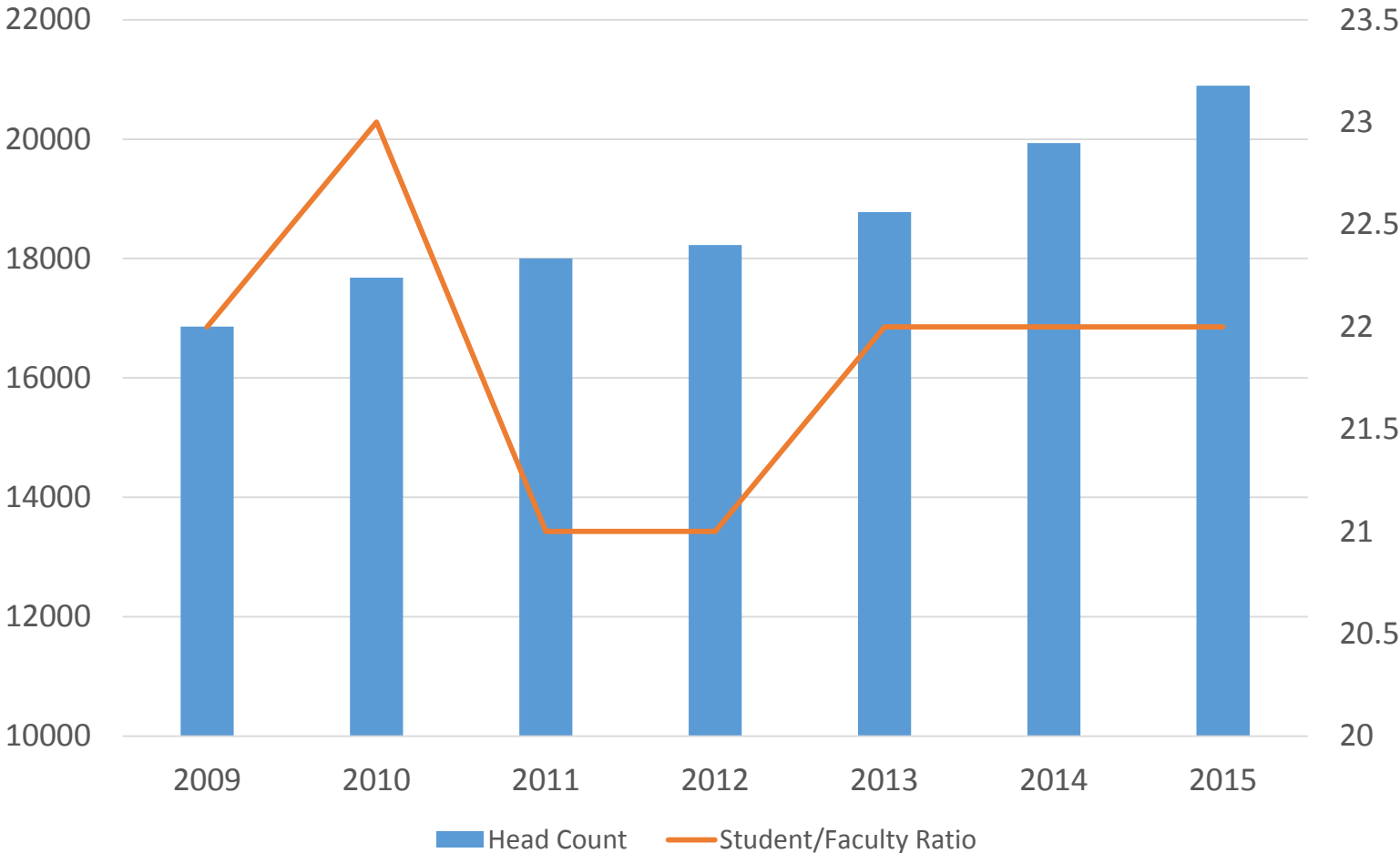
# High Impact Research University – Academic Faculty

	2009	2010	2011	2012	2013	2014	2015
Tenured/Tenure Track Academic Faculty	508	473	452	457	463	458	501
Lecturers Non-Tenure Track Faculty	86	81	112	107	109	110	113
Total Academic Faculty	594	554	564	564	572	568	614
Student to Faculty Ratio	22	23	21	21	22	22	22

*Focus on hiring full-time, quality faculty to maintain student to faculty ratio and quality learning outcomes.*



# High Impact Research University – Enrollment



*Student to faculty ratio holds steady while enrollment grows.*



# High Impact Research University - Diversity

	2009	2015	Change	Student Population
American Indian/Alaska Native	154	150	-2.6%	0.7%
Asian American/Pacific Islander	1,093	1,602	46.6%	7.7%
Black Non-Hispanic	425	711	67.3%	3.4%
Hispanic/Latino	1,735	3,576	106.1%	17.3%
Multiethnic	516	1,197	132.0%	5.8%
<b><i>Students of Color</i></b>	<b>3,923</b>	<b>7,236</b>	<b>84.5%</b>	<b>35.0%</b>
White Non-Hispanic	12,058	12,594	4.4%	60.9%
Non-Resident Alien/Unknown	881	1068	21.2%	5.2%

*Diversity continues to increase providing a more enriching learning environment.*



# High Impact Research University - Diversity

	2009	2015	Change	Student Population
International	648	717	11%	3%
Pell Grant	1,976	5,084	157%	30%
Disability	600	1,007	67%	6%
Veterans	281	601	114%	3%

*Diversity continues to increase providing a more enriching learning environment.*





# High Impact Research University - Admission

	2009-10	2010-11	2011-12	2012-13	2013-14	2014-15	2015-16
Average Freshman ACT Score	22.8	22.8	23.3	23.4	23.4	23.4	23.7
Average High School GPA	3.35	3.33	3.30	3.35	3.37	3.37	3.38
Freshmen Special Admits	312	377	367	129	107	98	132

*Students arrive increasingly better prepared.*



# High Impact Research University – Student Credits

	2009	2010	2011	2012	2013	2014	2015
Average New Freshman Credits	14.6	14.5	14.4	14.6	14.7	15.3	15.5
Avg. Undergraduate Credit Load	12.8	12.9	12.9	13.0	13.1	13.4	13.7

*Creating a culture of completion through “15 to Finish.”*



# High Impact Research University – Graduates Rates

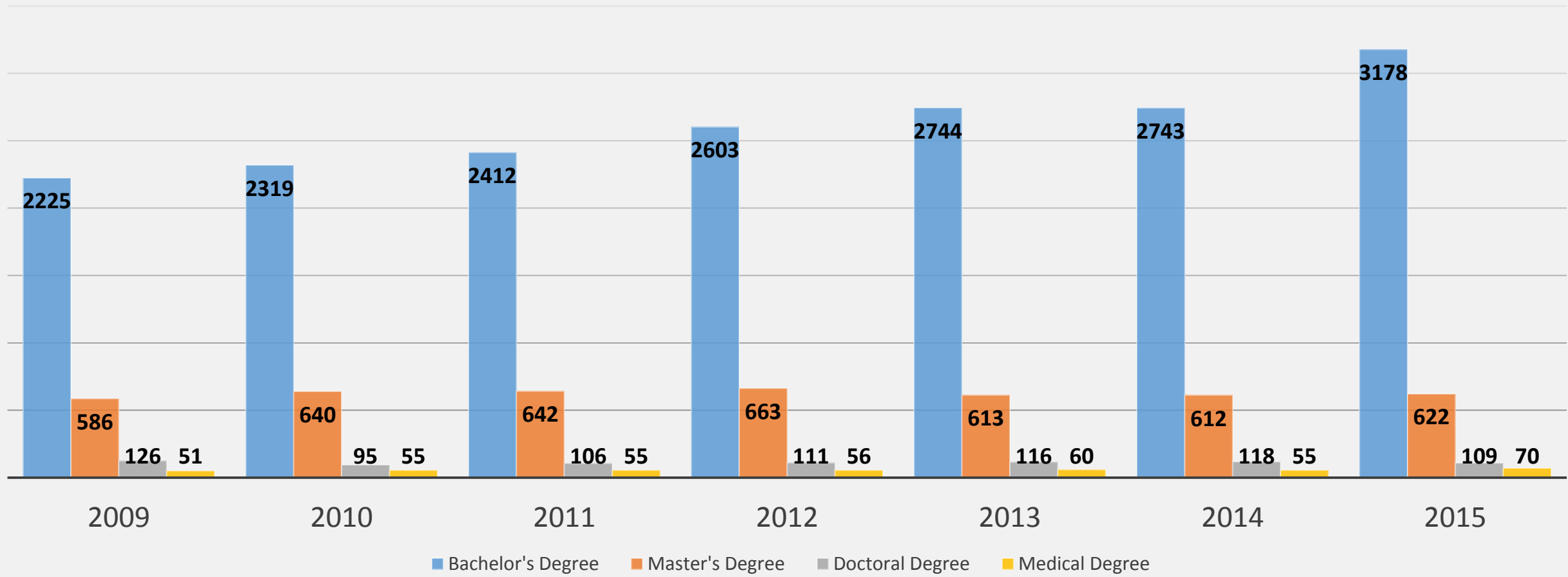
	2009	2010	2011	2012	2013	2014	2015
Retention Rate <small>(Freshman to Sophomore)</small>	80%	79%	78%	79%	80%	82%	<b>81%</b>
Graduation Rate – 4 year	17%	18%	18%	21%	23%	23%	<b>26%</b>
Graduation Rate – 6 year	47%	50%	53%	54%	51%	55%	<b>59%</b>

*Graduation rates are equivalent with peers.*



# NUMBER OF GRADUATES

– University of Nevada, Reno –  
**Degrees Awarded**  
2009-2015





# High Impact Research University – Performance Metrics

UNR (2% Target)	Weighted Points 2011-12 Baseline	Weighted Points 2012-13 Actual/Target	Weighted Points 2013-14 Target	Weighted Points 2014-15 Target
Total Weighted Points - Actual	1,447.9	1,554.6	1,612.3	1,786.0
Total Weighted Points - Target	--	1,476.9	1,506.4	1,586.0
<b>Percent of Target Achieved</b>	<b>Baseline</b>	<b>105.3%</b>	<b>107.0%</b>	<b>112.6%</b>

*Achieving the funding formula performance thresholds.*



# High Impact Research University - Research

	FY 2009	FY 2010	FY 2011	FY 2012	FY 2013	FY 2014	FY 2015
Tenured/Tenure Track Research Faculty	661	606	573	565	551	570	593
Research Faculty and other PhDs	97	88	81	83	79	95	102
Post-Doctoral	81	70	69	56	74	73	78
Total Research Awards (Millions)	\$99.3	\$88.5	\$102.6	\$73.3	\$79.6	\$92.1	\$92.1
Total Sponsored Awards (Millions)	\$124.9	\$119.7	\$135.1	\$55.0	\$111.6	\$122.3	\$121.4
Total Research Expenditures (Millions)	\$109.1	\$95.4	\$89.7	\$85.7	\$86.8	\$87.3	\$88.6

*Striving for R-1 Carnegie Classification.*

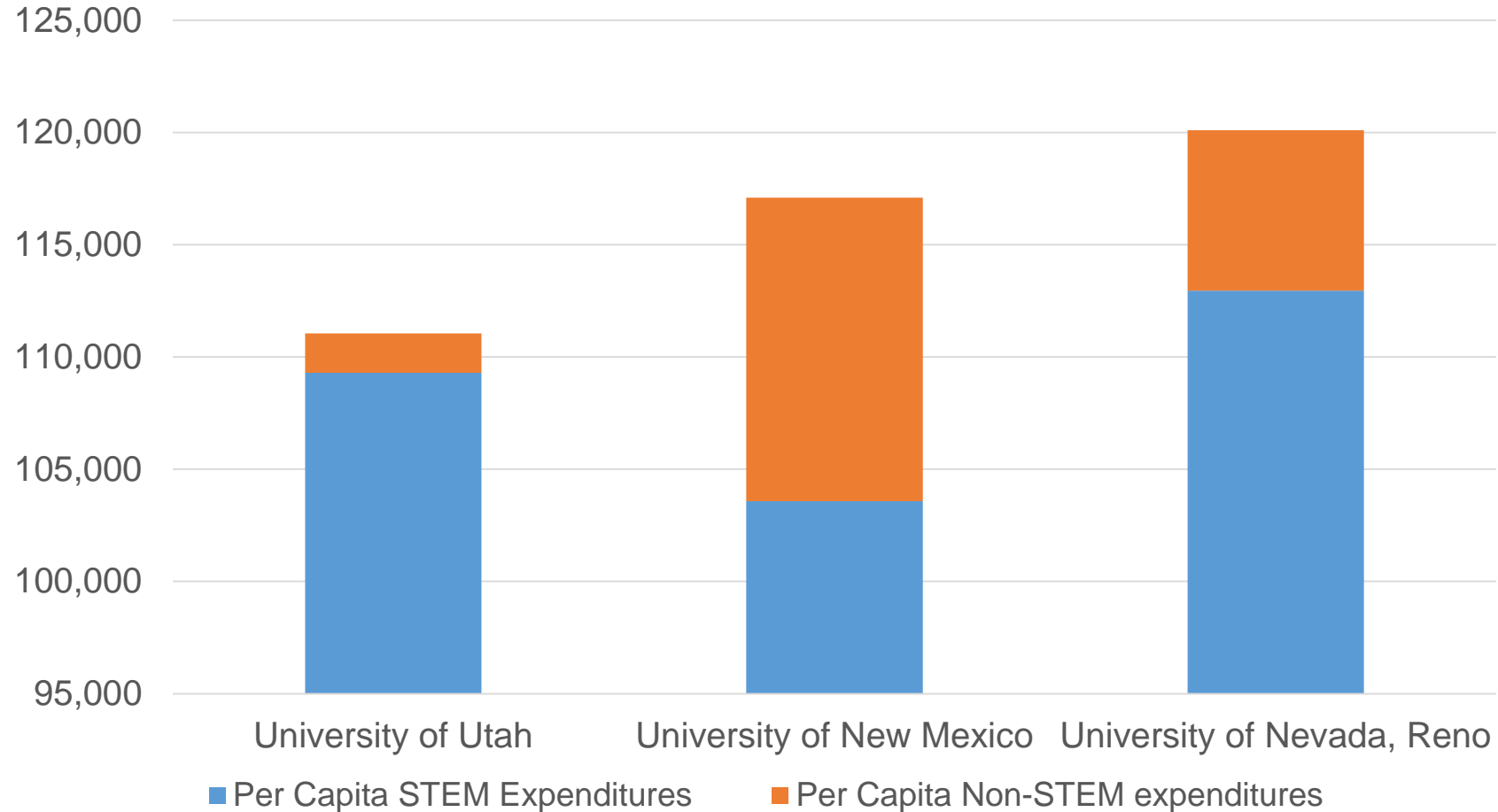


# High Impact Research University - Research



# High Impact Research University - Research

2008 Per Capita Research Expenditures





# RESEARCH: UAS and INDUSTRY

Creating partnerships between  
advanced manufacturing research  
enterprise and industry.



University of Nevada, Reno



## RESEARCH: Autonomous Car

Dr. Raul Rojas: Developing a new generation of driverless, unmanned vehicles with internationally recognized faculty.





# RESEARCH: EARTHQUAKE ENGINEERING

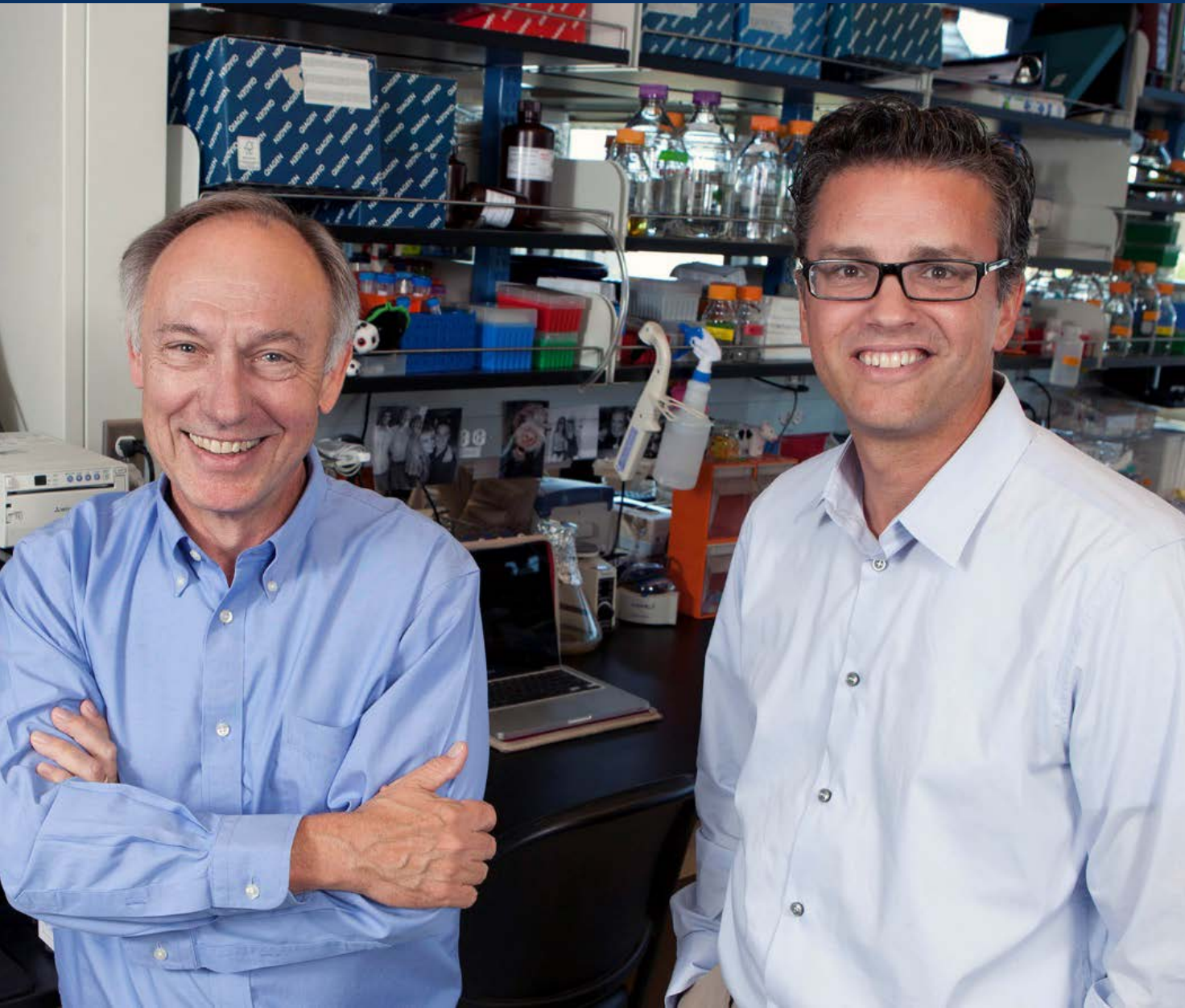
Testing innovative approaches through world-class facilities and faculty to attract new businesses and create a safer and more resilient world.



University of Nevada, Reno







## RESEARCH: MEDICAL DIAGNOSTICS & DISCOVERY

Dr. Tom Kozel and Dr. David AuCoin:  
Designing life-saving diagnostic  
procedures and collaborating with  
industry to solve the important health  
issues of our time.





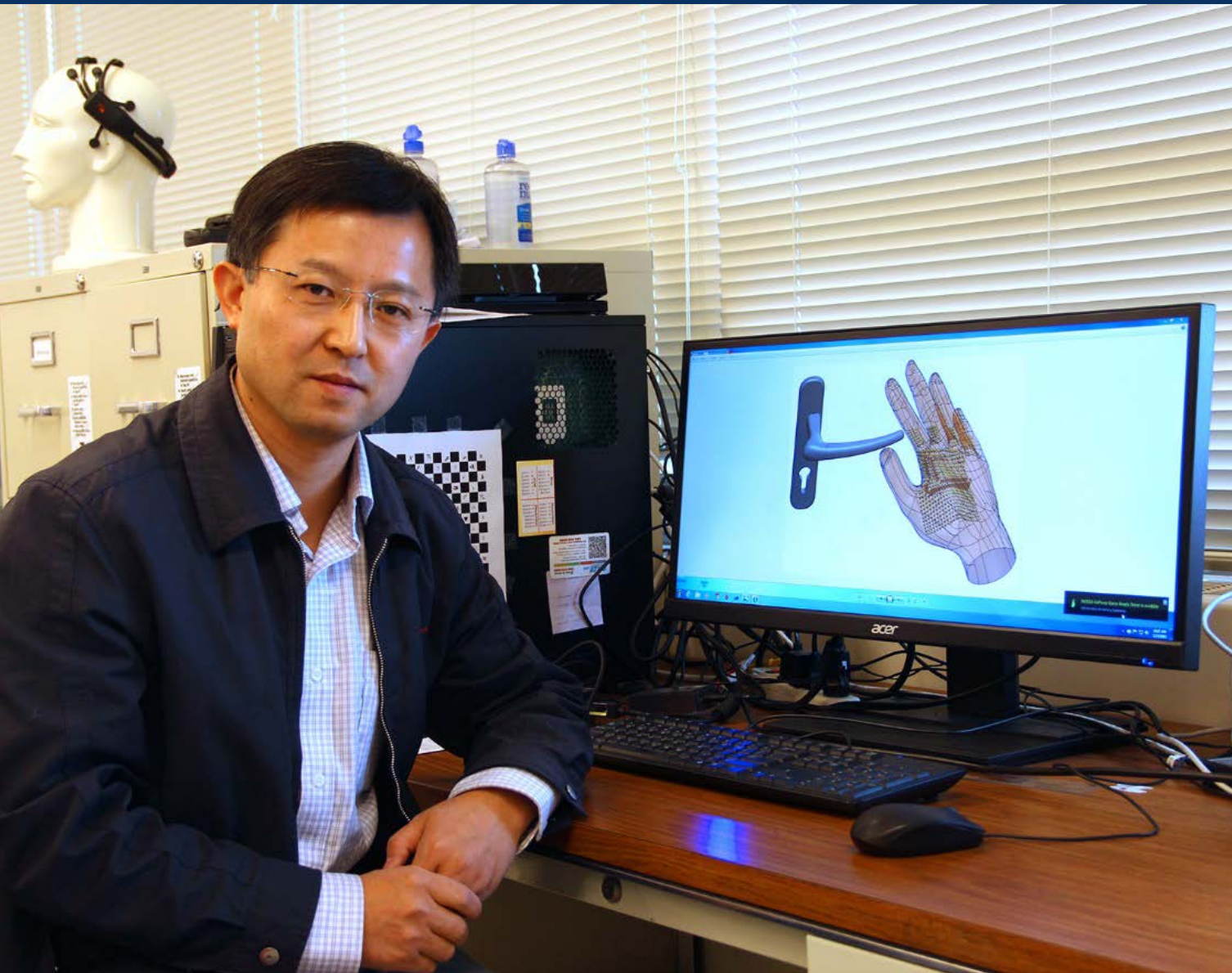
## RESEARCH: GEOTHERMAL

Dr. Wendy Calvin: Unlocking new resources of power from Nevada's geothermal sources.



University of Nevada, Reno





## RESEARCH: ROBOTICS

Dr. Yantao Shen: Engineering life-changing robotic devices to assist visually impaired and other disabled individuals.



University of Nevada, Reno





## RESEARCH: LIBERALARTS

Dr. Eric Rasmussen: Serving as the point of contact for all things Shakespeare, cataloguing the first folio, and acting as the center for Shakespeare's 500<sup>th</sup> birthday.



University of Nevada, Reno

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# High Impact Research University – Business Partners







## STATEWIDE ENGAGEMENT

- NCAR/NAASIC
- University of Nevada. Reno InNevation Center, Powered by Switch
- Nevada Small Business Development Center
- University of Nevada Cooperative Extension
- Agricultural Experiment Station
- Medical School/Telemedicine Initiatives
- Degree Programs
- NVIE – Nevada Industry Excellence
- Nevada Bureau of Mines and Geology
- Nevada Seismological Center



University of Nevada, Reno





# InNevation Center

- Biggest Little Start-Up Competition
- Tesla New Employee Training
- Renown Health Primary Data Project
- Entrepreneurs Assembly Board Meeting
- NxLevel for Entrepreneurs Classes
- Hack4Reno Event
- One-on-one Meetings with Venture Capital Groups
- Sierra Angels
- Maker Space



University of Nevada, Reno

# WILLIAM N. PENNINGTON STUDENT ACHIEVEMENT CENTER

- Opening February 2016
- Advising Center
- Career Studio
- Counseling Services
- Disability Resource Center
- Math Center
- Meditation/Reflection Room
- Trio and McNair Scholars
- Tutoring Center
- Veterans and Military Center
- Writing Center
- Classrooms

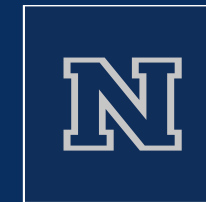


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# E. L. WIEGAND FITNESS CENTER

- Opening January 2017
- Indoor Track
- Basketball Courts
- Functional Training Zones
- Strength Area
- Multi-Use Rooms
- Cardio Stairs



University of Nevada, Reno

# Great Basin Hall

- Opening Fall 2017
- STEM Focus
- Computer Lab

## RESIDENCE HALLS

- Fall 2015 Capacity – 2,390
- Fall 2015 Bed Count – 2,959
- Great Basin Hall – 424



University of Nevada, Reno





## ACT II

- Opening January 2019
- Recital Hall
- Art Museum
- Instrumental Rehearsal Room
- Choral Opera Rehearsal Room
- Recording Studio
- Digital Media Area
- Practice Rooms
- Faculty Offices



University of Nevada, Reno

# ENGINEERING COMPLEX

- Research Laboratories
- Teaching Laboratories
- Computer Laboratories
- Faculty Offices



University of Nevada, Reno



# RENOVATIONS

## Renovation of Existing Space

- Lincoln Hall Renovation – Completion 2016
- Mackay Stadium – Completion 2016
- Thompson Hall Repurpose – Completion 2017
- Palmer Engineering – Completion 2017

## Future Renovations

- Chemistry Building and Leifson Physics
- Jones Center
- Lombardi Recreation Center
- Manzanita Hall



University of Nevada, Reno



# DEFERRED MAINTENANCE

Reduced deferred maintenance \$99.3M during FY 2012-2016

- FY 2014 estimated deferred maintenance needs total \$621M
- FY 2012-2015 spent \$20.1M (including \$8.1M of HECC/SHECC funds)
- FY 2015-2016 reduced deferred maintenance by \$53M
  - Eliminated \$49M with Getchell Library
  - Eliminated \$4M with White Pine Hall
- FY 2016
  - Approximately \$8.2M expenditures for infrastructure
  - Approximately \$18M expenditures of slot tax funding for Palmer renovation

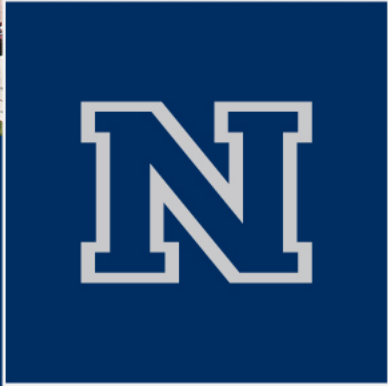


# DEVELOPING AN ADVANCED MANUFACTURING RESEARCH ENTERPRISE

- Increasing Graduates for the Workforce
- Growing Research Portfolio from \$88M to \$180M
- Increasing and Retaining Faculty
- Reducing Student to Faculty Ratio
- Building the Ph.D. Pipeline
- Building Research Support Capacity
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# University of Nevada, Reno