If you don’t know where you’re going, any road will get you there.
– Lewis Carroll
AGENDA

WELCOME..............................................................................CHERYL B. SCHRADER

STUDENT AFFAIRS UPDATE
THEMES 1-4...........................................................................DEBRA ROBINSON

COMMUNICATIONS/BRANDING UPDATE
THEME 2..............................................................................ANDY CAREAGA

CORPORATE RELATIONS/ONLINE UPDATE
THEMES 3 AND 4.....................................................................KENT WRAY

DOCTORAL STUDENTS
THEME 4...............................................................................VENKAT ALLADA

STRATEGIC PLAN PROGRESS HIGHLIGHTS
THEME 1-4...........................................................................ROSE HORTON
Student Affairs Strategic Contributions

Dr. Debra Robinson
Vice Chancellor for Student Affairs
CHANGING LANDSCAPE OF HIGHER EDUCATION

- Growing Student Population
- Changing Needs and Expectations
- Customer Service Mentality
- Globalization
- Professional Service Environment
- External Requirements
- Accountability

STUDENT AFFAIRS STRATEGIC THEMES

- Safe and Healthy Campus Community
  Connects to Missouri S&T Strategic Plan Themes 1, 3, and 4

- Customer Focused Services and Facilities
  Connects to Missouri S&T Strategic Plan Themes 1, 2, and 3

- Inclusive Environment and Lifetime Engagement
  Connects to Missouri S&T Strategic Plan Themes 1, 3, and 4

- Career Ready Graduates
  Connects to Missouri S&T Strategic Plan Themes 1, 3, and 4

Promoting personal and professional development, lifetime engagement, and success.
SAFE AND HEALTHY CAMPUS COMMUNITY

- Student Wellness Expansion
  - STEP UP!
  - Peer Mentors
  - Miner Well

- Title IX Collaboration
  - Case Management Services
  - Enhanced Mental Health Services
CUSTOMER FOCUSED SERVICES AND FACILITIES

- University Housing
  - University Commons
  - Rolla Suites

- Dining Services
  - Miner Break Starbucks
  - Z’atar
  - Au Bon Pain
  - C-Store

- Athletics and Recreation

Trim Trax initiative collected 25,000+ quarts valued at $85,000+ for local farmers
Leadership Development Plan

Leadership Certificate Program

Expanded Volunteer Opportunities

Reinvention of Residential Learning Communities

MINER FOR LIFE!

MINERS DIG DEEPER
CAREER READY GRADUATES

- Professional Development Plan
- On-line Interview Suite
- Enhanced Graduate Student Services
- IRA Collaboration to Enhance Data Tracking
- Expansion of Employer Events
- Corporate Development Council Focus

career.mst.edu
FUTURE FOCUSED INITIATIVES

- Student Health Services Accreditation
- University Dining Services Contract
- Women’s and Men’s Golf Teams
- Recreation and Fitness Expansion
- Havener Center Expansion
- Mentoring Programs
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STRATEGIC PLAN PROGRESS HIGHLIGHTS
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Strategic Planning Summit
Nov. 3, 2016
Missouri S&T Marketing and Communications
Create and implement a communication and marketing plan to raise the visibility of the campus and convey our return on investment.
Marketing Leadership Team

- Dr. Venkata Allada
- Dr. Richard Brow
- Andrew Careaga, chair
- Dr. Jeff Cawlfield
- Dr. Mariesa Crow
- Dr. Edna Grover-Bisker
- Mindy Limback
- Shenethia Manuel
- Dr. Robert Marley
- Dr. Lea-Ann Morton

- Joan Nesbitt
- Dr. Stephen Roberts
- Dr. Debra Robinson
- Dr. Cheryl B. Schrader
- Dr. Jeff Schramm
- Elizabeth Smith
- Laura Stoll
- Dan Uetrecht
- Dr. Kent Wray
Core Marketing Network

- Tim Albers
- Sudharshan Anandan
- Dr. S.N. Balakrishnan
- Bridgette Betz
- Meg Brady
- Rhonda Byers
- Andrew Careaga
- Kimber Crull
- Tyrone Davidson
- Rebecca Frisbee
- John Gallagher
- Morgan Hale
- Angie Hammons
- Darla Harmon
- Nancy Hatch
- Rose Horton
- John Kean
- Oyebanjo Lajubutu
- Dr. Bih-Ru Lea

- Mindy Limback, chair
- Liz McCune
- Cheryl McKay
- Mark Mullin
- Pranita Nayak
- Adrienne Neckermann
- Dr. Matt O’Keefe
- Julie Pittser
- Barb Prewett
- Janice Ridolfi
- Jesse Singleton
- Dr. Joseph Smith
- Dr. Sarah Stanley
- Lynn Stichnote
- Joann Stiritz
- Mary Helen Stoltz
- Keith Strassner
- Ben White
Marketing and Communications: Building our brand

• Market research
  • Fall 2014
  • Spring 2015
• Brand strategy development
  • Spring-Summer 2015
• Creative development
  • Fall 2015
• Brand rollout
  • Spring 2016-present
Market research: What we found

- National awareness varies by audience
- Academic excellence recognized
- Meeting prospects’ expectations
- An innovative, respected university
- Internal challenges
- Alumni are ‘proud Miners’
Missouri S&T’s ‘brand essence’

Missouri S&T...

Builds upon a heritage of discovery, creativity and innovation across all academic and research disciplines

so that our community is...

Inspired and ready to pursue and solve the world’s great challenges.
Bringing the brand to life: the S&T voice

<table>
<thead>
<tr>
<th>Emotional</th>
<th>How We Act</th>
<th>Impact on Voice</th>
</tr>
</thead>
<tbody>
<tr>
<td>WELCOMING</td>
<td>Accessible and friendly</td>
<td>We communicate with an approachable style</td>
</tr>
<tr>
<td>INSPIRED</td>
<td>Proud of and encouraged by the amazing things happening here</td>
<td>There’s a vision and creativity in our language and our aesthetic</td>
</tr>
<tr>
<td>CONNECTED</td>
<td>Actively engaged in an involved community</td>
<td>Our communications are dynamic and feel inclusive</td>
</tr>
<tr>
<td>SMART</td>
<td>Capable and respected, with the right balance of entrepreneurship</td>
<td>Our messages are intelligent and thought provoking</td>
</tr>
<tr>
<td>INVENTIVE</td>
<td>Innovative, challenging the status quo</td>
<td>We are excited by the possibility of effecting change</td>
</tr>
<tr>
<td>ENTHUSIASTIC</td>
<td>Eager and insightful about the things that excite us</td>
<td>There is an energy to our messages</td>
</tr>
</tbody>
</table>
Communicating the brand: verbally, visually, virtually
MINERS GIVE BACK

MISSOURI S&T MAGAZINE

13 SAVING THE BATS
35 NEW ALUMNI
WE ARE YOU
Welcome to our 25th anniversary season!

4D Theatre with Mark Nizer
Friday, Sept. 23, 2016 | 7 p.m.
General Admission $15

The phrase “Nothing Less Than Brilliant” (Performance Magazine) has been used to describe the comedic antics and juggling feats of Mark Nizer. Making the impossible possible, Mark Nizer has taken his one-man show to a variety of venues around the world, including The Improv, The Comedy Store, Walt Disney World and numerous college campuses.

Saint Louis Symphony Orchestra Opening Night Gala
Wednesday, Sept. 7, 2016 | 7:30 p.m.
General Admission $30 (subscription includes pre- and post-concert activities)

The Saint Louis Symphony Orchestra will kick-off Leach Theatre’s 25th anniversary season with a special opening night gala. Celebrate the 2016-17 season and listen to classical pieces performed by some of the best musicians in the world. Prior to the concert, attendees can enjoy hors d’oeuvres and drinks.

This event is not included in season subscription packages.
Missouri S&T Brand Symposium – September 8, 2016

College of

Arts, Sciences, and Business

Creative Thinkers Welcome

100%
Of students participate in experiential learning.

#1
Teacher education program for secondary education in Missouri.

5%
One of 761 business schools out of 16,000 with AACSB accreditation.

1:1
Ratio of female students to male students.
Home to one of the oldest computer science programs in the country, the world’s first engineering management program and the only U.S. Ph.D. program in explosives engineering, we’ve been research leaders for nearly 150 years.
HOUSING GUIDE
You'll discover that Missouri S&T offers a variety of living options.

**FIND YOUR PLACE**

With both traditional and apartment-style housing available, you'll find one that suits your needs.

**WELCOME HOME**

**RESIDENTIAL COMMONS (RC)**

Located on the second floor of the Student Center, the Residential Commons is the hub of community life. It features a variety of study areas, a lounge, and a kitchen for residents to use.

**THOMAS JEFFERSON HALL (TJ)**

Completed in 2016, TJ is one of the most exciting parts of going to college! It features a state-of-the-art learning environment, cutting-edge technology, and a modern design.

**UNIVERSITY COMMONS (UC)**

UC is the heart of campus, with its state-of-the-art facilities and vibrant community. It is the place where students come to study, socialize, and engage in extracurricular activities.

Missouri S&T
OUR MISSION
Missouri S&T integrates education, research and application to create and convey knowledge that serves our state and helps solve the world's great challenges.

MINERS DIG DEEPER

OUR VALUES
Lifelong Success
Creativity
Integrity
Sustainability
Partnerships
Inclusion
Missouri S&T Brand Symposium – September 8, 2016

Where your voice matters.
Next steps: Raising visibility

- Raise awareness among prospective graduate students
- Maintain current awareness levels among prospective undergraduate students
- Increase visibility of College of Arts, Sciences, and Business academic offerings
- Increase research visibility
- Build awareness of brand identity among internal stakeholders
- Communicate ROI to key customer groups and other stakeholders
- Portray Missouri S&T as innovative and respected
AGENDA

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THEME 1-4........................................................................................................Rose Horton
STRATEGIC PLAN PROGRESS

GLOBAL and STRATEGIC PARTNERSHIPS

• Corporate Relations
• International and Cultural Affairs
• Global Learning
Global and Strategic Partnerships Division

Completed Actions: 8
Deferred Actions: 1
In-Progress Actions: 6
Ongoing Actions: 25
CORPORATE RELATIONS
Progress on Action 3.2.6: Broadly identify needs of external constituents that could be met by Missouri S&T

> Process for identifying needs of external constituents in place, including research, student recruitment and distance learning
  – Engagement Model, Engagement Audit

> Recommended Status – Ongoing (needs will always be re-evaluated)
Progress on Action 3.2.8:
Develop a method for evaluating the relative strength and breadth of the partnerships with external constituents (research, student hiring, giving, distance courses, board memberships, etc.)

> Corporate Engagement Audit process and tiering protocol established and in use by the Corporate Relations Team

> **Recommended Status - Complete**
Progress on Action 3.2.11:

Develop a marketing plan to communicate the benefits of the office to key customers (See Lever 2.4)

Examples on the following slide
Website

One Page Summary

CORPORATE RELATIONS

INVEST IN THE FUTURE. FORGE A STRATEGIC PARTNERSHIP WITH S&T.

Missouri S&T’s corporate relations team can reach your company to develop a mutually beneficial relationship with the university. Whether you’re looking to recruit talented graduates, collaborate with faculty researchers, or educate your workforce, you’ll find the corporate relations team is here to nurture those partnerships.

ABOUT THE CORPORATE RELATIONS OFFICE

The corporate relations office at Missouri S&T offers a wide range of services designed to help companies develop mutually beneficial relationships with the university. Whether you’re looking to recruit talented graduates, collaborate with faculty researchers, or educate your workforce, the corporate relations team is here to nurture those partnerships.

LET’S TALK

LEADERSHIP TEAM

Rick Severy, Director of Quality Assurance, AnceleMittal
Pervin Rodriguez, Principal, Upshawn Forensics, LLC
Lisa Bombart, President and CEO, William Tao and Associates
Jeff Steinher, Vice President, Anheuser-Busch (retired)
Linda Harrell, Research Manager, Advance Materials Technology, Caterpillar
Matt Daniels, Senior Manager, Education Relations, The Boeing Company

Website Gifts

Industry Day Invitation

You’re Invited to join us for INDUSTRY DAY 2016

Thursday, Oct.13, 9 a.m.- 3:30 p.m.
Havener Center, Missouri S&T

Learn how your company and S&T can create a partnership to forge a brighter future. Discover how S&T’s unique research areas can meet your needs, visit with faculty and students, listen to guest speakers, and tour our research centers and labs.

Newsletter

Introducing The Corporate Advisory Board

The newly established Corporate Advisory Board held its first meeting April 20 at Missouri S&T’s Hasselmann Alumni House. The board’s mission is to support and advise the Corporate Relations Team in accomplishing its strategic plan goals and objectives, provide guidance on industry needs and challenges, and help connect S&T with industries and companies for mutual benefit.

Members include:
Rick Severy, Director of Quality Assurance, AnceleMittal
Pervin Rodriguez, Principal, Upshawn Forensics, LLC
Lisa Bombart, President and CEO, William Tao and Associates
Jeff Steinher, Vice President, Anheuser-Busch (retired)
Linda Harrell, Research Manager, Advance Materials Technology, Caterpillar
Matt Daniels, Senior Manager, Education Relations, The Boeing Company
Progress on Action 3.8.2:
Create a culture of sustainability on the Missouri S&T campus and within the community by delivering programs that increase sustainability awareness

> Programs delivered include:
  – Earth Day
  – RecyleMania
  – Solar/Eco Villages Management and Tours
  – EcoMiner Recycling at sports events
  – Sustainable Energy Conference in collaboration with sustainability offices at Ameren, Saint Louis University, and Washington University

> Change owners from OSE3, Provost, Executive Director of Corporate Relations to Center for Sustainability and Strategic Sustainability Planning Committee

> Recommended Status - Ongoing
Progress on Action 3.8.5:
Create and promote an alternative transportation culture focused around simple transportation methods, including pedestrian, cycling, and energy efficient busing to improve alternative transportation infrastructure over the next five years

> **Subcommittee identified**, collaboration with City of Rolla underway, bicycle friendly campus application submitted (Engineering Management)

> **Change owners** from OSE3, VC for Finance and Administration, and Executive Director of Corporate Relations to Center for Sustainability, Strategic Sustainability Planning Committee, and VC for Finance and Administration

> **Change key metric from** “Projects identified and funded” to “Alternative Transportation Plan developed in collaboration with City of Rolla.” Projects identified in the plan are funded through student fees, grants, sponsorships, and campus operating funds

> **Recommended Status - Ongoing**
Progress on Action 3.8.17:
Increase the visibility of Missouri S&T in the areas of energy, environment and sustainability

> **Center for Sustainability** director is on the following boards: Missouri Energy Initiative, Sustainable Ozarks Partnership, Leonard Wood Institute, Missouri Center for Advanced Power (MOCAP), Kaleidoscope Discovery Center

> **Microgrid Industrial Consortium** launched with 6 founding members

> **Missouri S&T recognized** in *Princeton Review’s 2016 Guide to Green Colleges*

> **Change owners from** OSE3, Vice Provost and Deans, Executive Director of Corporate Relations to Center for Sustainability, Vice Provost and Deans

> **Change key metric from** “Number of board memberships and conferences hosted” to “Number of board memberships and sustainability awards/recognition events”

> **Recommended Status – Ongoing**
INTERNATIONAL and CULTURAL AFFAIRS
Progress on Action 2.4.15:
Develop a communication plan to increase awareness of campus internationalization efforts and international collaboration activities identified during the ACE Internationalization Lab

> Perform evaluation of ACE/CIGE model for comprehensive internationalization (completed)
> Perform SWOT (Strengths, Weaknesses, Opportunities, Threats) analysis of internationalization efforts and activities (completed)
> Join the ACE Internationalization Laboratory advisory support opportunity (joined; in progress)
> On-campus visit Nov. 7-8 by ACE Internationalization Lab advisor

Overall: In Progress
Progress on International Enrollment

Lever 2.2. Leverage S&T as Missouri’s technological research university

Lever 4.5. Engage in transformative doctoral student recruiting/retention and placement

> Increase the number of international contract recruiters in order to increase enrollment

  - Increase the number of international contract recruiters to not more than 20 by June 30, 2017
    > Increased communications with long-standing contract recruiters
    > Approved contract with an additional recruiter, GeeBee (India)
    > Research underway to confirm up to 20 quality contract recruiters
Progress on International Enrollment

Lever 2.2. Leverage S&T as Missouri’s technological research university

Lever 4.5. Engage in transformative doctoral student recruiting/retention and placement

> International enrollment increased from 954 in baseline year 2012 to 1,125 in Fall, 2016

> Increase the number of international contract recruiters in order to increase enrollment
Progress on International Enrollment

Lever 2.2. Leverage S&T as Missouri’s technological research university

Lever 4.5. Engage in transformative doctoral student recruiting/retention and placement

- Research options for processing international student documents in order to increase enrollment yield rates
  > Ensure document processing for prospective international students meets benchmark standards
  > Investigate best practices in an effort to increase international student enrollment (45.7% yield rate, Fall 2016)
  > Develop mechanisms for instituting most efficient practices
GLOBAL LEARNING
Number of students enrolled in distance/online FS16:

> 1,622 in Blended Courses
> 2,334 in Distance Courses
Progress on Action 4.1.3:
Create a uniform marketing strategy to raise visibility of distance and online programs

> Executive Advisory Board (EAB) Market Research Report conducted to establish baseline of student demographics and targeted audience.
> Trends in STEM and Employer demand.
> Report to be used as baseline in marketing strategy plan.
> Plan actively being developed.

(Actions: Ongoing)
Progress on Action 4.1.4: Increase our focus on the professional non-credit distance education portfolio

> Size of portfolio + A8 Enrollment and revenue
> Expansion of non-credit: working on power program, systems engineering
> Working on two new opportunities for non-credit courses: Engineering Ethics; national training in partnership with ACCO, Paint and Coatings

(Actions: Ongoing)
Progress on Action 4.1.9: Create more online capability in classrooms

- Level of classroom capacity: Two rooms in Bertelsmeyer Hall under construction (estimated completion January 1, 2017)
- Conversions of two campus classrooms to Hybrid format
- Expanding capacity of ECE 103 classroom

(Actions: Ongoing)
Progress on Action 4.6.4
Explore the feasibility of a Center for Teaching and Learning/Center for Faculty Excellence

> A Steering Committee has been created to guide this initiative forward

> This center will provide resources that support faculty excellence in teaching, research and creative activities

> This initiative will be faculty centric, involving high levels of faculty involvement

> Future reporting on this action will be provided by the Provost office

(Actions: In Progress)
Progress on Action 4.6.7: Enhance the new faculty orientation program

> Number of new faculty mentor sessions, retention of new faculty
> Freshmen faculty forum - designed and delivered four sessions in Fall 2015 (45 participants)

(Actions: Ongoing)
Please visit our website (gsp.mst.edu.) for a complete list of progress made on all of our action items.
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STRATEGIC PLAN PROGRESS HIGHLIGHTS
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6 KEY CUSTOMER GROUPS OF THE MISSOURI S&T STRATEGIC PLAN

> Undergraduate students
> Research investors
> Research-based graduate students
> Employers
> Distance and online students
> Donors
OFFICE OF GRADUATE STUDIES

ORIGINAL & NEW GROWTH TRAJECTORIES

Stage I: 2007-2012

Proposal Idea + SI Funds

Stage II: 2012-2020

Innovation Window

From Graduate Office to Graduate School Thinking

New Growth Strategy
Any Doctoral student on a 37.5% FTE or higher GRA/GTA/GA appointment will receive full remittance of tuition and supplemental fees.

Any Master’s student in a non-Doctoral granting department (English & Technical Communication, Biological Sciences, Psychological Science, Business and Information Technology) on a 37.5% FTE or higher GRA/GTA/GA appointment will receive full remittance of tuition and supplemental fees.
REVISED FOR 2017 APPLICANTS: CHANCELLOR’S DISTINGUISHED FELLOWSHIP

8 New Fellowships Available per Year

- General Chancellor’s Distinguished Fellowship
  4 Available

- Diversity and Inclusion Chancellor’s Distinguished Fellowship
  4 Available
  URM & Female

> Additional Criteria:
- Starting doctoral program in Spring, Summer, or Fall 2017
- US Citizen, US National, Permanent Resident
- Minimum 3.5 CGPA (Bachelor’s or Master’s)
- 50% FTE GRA/GTA/GA appointment provided by the department (which subsequently provides coverage of tuition and supplemental fees)
- Competitive GRE scores
Departments can nominate up to 4 eligible students by Feb. 15th (by providing a ranked list of nominations to the Office of Graduate Studies).

Benefits:
- $10,000 fellowship on top of GRA/GTA/GA position
- Coverage of dedicated fees (IT fees, activity and facility fees, health services fees)
- 4 year fellowship (if student has Master’s); 5 year fellowship (if student has Bachelor’s)
GRADUATE ENROLLMENT

- Doctoral enrollment increased 21%

*Master's includes Certificates

New Record
DOCTORATE DEGREES AWARDED

2006-2016

- 2015-2016: 109
- 2014-2015: 95
- 2013-2014: 70
- 2012-2013: 95
- 2011-2012: 70
- 2010-2011: 65
- 2009-2010: 51
- 2008-2009: 50
- 2007-2008: 63
- 2006-2007: 63

New Record!
MASTER’S DEGREES AWARDED

2006-2016

2015-2016  688
2014-2015  675
2013-2014  551
2012-2013  579
2011-2012  567
2010-2011  517
2009-2010  411
2008-2009  426
2007-2008  430
2006-2007  356

New Record!
Technical Editing submissions have increased from 1022 pages edited in FS 2014 to 2249 pages edited in FS 2015. This is a 120% increase in one year.
Each T/D is checked for formatting ~3-6 times.
Program created in 2014 based on a proposal submitted to the UM System by the graduate deans of the 4 UM System campuses (UMSL, UMKC, Mizzou, S&T). Goal is to impart transferrable skills.

Currently in third year of the program.

8 students from each campus are selected annually.

Conferences on all 4 UM campuses
- Communication
- Creativity, Initiative, and Entrepreneurship
- Management and Organization Skills
- Problem Solving Skills

Local programming offered for each cohort.
ON YOUR MARK. GET SET. 

GO!

THREE MINUTE THESIS COMPETITION

1 SLIDE. 3 MINUTES. 
CREATE. EDUCATE. INSPIRE. 

3MT® IS A CAMPUS-WIDE EVENT IN WHICH GRADUATE STUDENTS PRESENT THEIR THESIS/DISSERTATION TO A GENERAL AUDIENCE IN 3 MINUTES!

PRELIMINARY & SEMI-FINALS 
WEDNESDAY, OCTOBER 5, 1PM-4PM 
Havener Center

FINAL COMPETITION 
THURSDAY, OCTOBER 6, 3:30PM 
Missouri-Ozark, Havener Center

FIRST PLACE: $300
SECOND PLACE: $200
PEOPLES CHOICE: $100

THIS COMPETITION IS OPEN TO ALL MISSOURI S&T GRADUATE STUDENTS

TO LEARN MORE, VISIT: 
http://grad.mst.edu/events/3mt/
> Second annual 3MT competition took place in 10/2016.

– 30 graduate students participated
– 15 judges from campus and Rolla community participated

AWARDEES

Josh Heck
1st Place
MS Mechanical Engineering

Michelle Gegel
2nd Place
PhD Mechanical Engineering

Jatin Mehta
People’s Choice
PhD Chemistry
Video: Josh Heck, MS Mechanical Engineering
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STUDENT OUTCOMES

Lever 1.1: Require all undergraduate students to participate in some significant experiential learning activity before they graduate

On-Campus Interviews

2012: 4,053
2013: 4,276
2014: 4,772
2015: 3,842*

Interviews now performed via distance with new online interview room

Starting Salaries of Undergraduates

2012: $59,504
2013: $61,412
2014: $63,350
2015: $61,831

Starting Salaries of Graduates

2012: $71,402
2013: $70,700
2014: $75,182
2015: $76,632

Employer Satisfaction with Hires

2012: 92%
2013: 89%
2014: 99%
2015: 100%
The Miner Tank was developed and implemented in fall 2015 following the format of the “shark tank” television program. Miner Tank is an open forum and the campus community are invited to attend.

In fall 2015, 31 proposals were submitted and 19 proposals were submitted in spring 2016; 20 proposals were awarded in the 2015-16 academic year.

In fall 2016, 16 proposals were submitted and 4 were awarded for funding.
INNOVATION

Lever 1.2: Foster innovation and creativity for faculty, staff, students, and administration

• Missouri S&T and Mizzou are exploring a MOU for a state I-Corps program
• Professor Bonnie Bachman and four others from Missouri were invited to attend the White House Office of Science and Technology Policy workshop
• Trustee John Lovitt is chairing new Innovation and Entrepreneurship curriculum task force for Midwest Engineering Entrepreneurship Network
• Missouri S&T received funding from Missouri Technology Corporation to expand I-Corps instructor trainings - MU, UMKC and Truman State participating
• Makerspace is now open and operational
• Four faculty received Innovation in Education grants
• First experiential entrepreneurship/innovation course will be introduced to South Africa in 2017
• Campus Innovation Committee was established
• Innovate.mst.edu updated
LEARNING COMMONS

Lever 1.2: Foster innovation and creativity for faculty, staff, students, and administration

- Articles delivered to Missouri S&T have increased by 94%
- Successfully fulfilled interlibrary loan articles requests increased to 92%
- The Learning Commons has also enhanced student learning. The number of students attending library classes increased 400%
- The Scholar’s Mine user base increased by 68%
- Page views in Scholar Mine increased by 55%
ENROLLMENT

Lever 2.2: Leverage S&T as Missouri's technological research university

Fall 2016 Student Diversity

Women: 2,009 (16% increase since 2012)
Minority: 1,112 (38% increase since 2012)
Underrepresented minority: 740 (20% increase since 2012)

Record Ph.D. Enrollment: 624
## STRATEGIC FACULTY HIRES

**Lever 2.2: Leverage S&T as Missouri's technological research university**

<table>
<thead>
<tr>
<th>Department</th>
<th>Title</th>
<th>Rank</th>
</tr>
</thead>
<tbody>
<tr>
<td>Computer science</td>
<td>Assistant Teaching Professor</td>
<td>NTT</td>
</tr>
<tr>
<td>Electrical and computer engineering</td>
<td>Assistant Teaching Professor</td>
<td>NTT</td>
</tr>
<tr>
<td>Chemical and biochemical engineering</td>
<td>Associate Teaching Professor</td>
<td>NTT</td>
</tr>
<tr>
<td>History and political science- teacher education program</td>
<td>Assistant Teaching Professor</td>
<td>NTT</td>
</tr>
<tr>
<td>Materials science and engineering</td>
<td>Assistant Teaching Professor</td>
<td>NTT</td>
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<tr>
<td>Engineering management and systems engineering</td>
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<td>Physics</td>
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<td>Assistant Professor</td>
<td>T/TT</td>
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<tr>
<td>Electrical and computer engineering</td>
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<td>T/TT</td>
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<tr>
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<tr>
<td>Geosciences and geological and petroleum engineering</td>
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**T/TT: 12**

**NTT: 6**
### STRATEGIC FACULTY HIRES

**Lever 2.2: Leverage S&T as Missouri’s technological research university**

<table>
<thead>
<tr>
<th>Department</th>
<th>Title</th>
<th>Rank</th>
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<tbody>
<tr>
<td>Psychological science</td>
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</tr>
<tr>
<td>Mechanical and aerospace engineering</td>
<td>Assistant Teaching Prof</td>
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<table>
<thead>
<tr>
<th>Signature Area</th>
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<tbody>
<tr>
<td>Advanced Manufacturing</td>
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<tr>
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<tr>
<td>Advanced Materials for Sustainable Infrastructure</td>
<td>Assistant Professor</td>
<td>Materials science and engineering</td>
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<tr>
<td>Advanced Materials for Sustainable Infrastructure</td>
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<td>Civil, architectural and environmental engineering</td>
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<tr>
<td>Enabling Materials for Extreme Environments</td>
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<td>Chemistry</td>
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T/TT: 11

NTT: 2
### STRATEGIC FACULTY HIRES

**Lever 2.2: Leverage S&T as Missouri's technological research university**

<table>
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<th>Department</th>
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<td>Mathematics and statistics</td>
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<tr>
<td>English and technical communication</td>
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<tr>
<td>Joint Hire (GGPE/MNE)</td>
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<td>Joint Hire (CS/ECE/EMSE)</td>
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<tr>
<td>Chemical and biochemical engineering</td>
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<tr>
<td>Biological sciences</td>
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</tr>
<tr>
<td>Economics</td>
<td>Assistant Teaching Professor</td>
<td>NTT</td>
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</table>

**TOTAL**

- Tenured, tenure-track: **31**
- Non-tenure track: **11**

**9 additional strategic hires in Signature Areas are planned for 2017**

**An additional 5 faculty searches underway**
TOTAL FACULTY FTE

Lever 2.2: Leverage S&T as Missouri’s technological research university

<table>
<thead>
<tr>
<th>Year</th>
<th>CEC</th>
<th>CASB</th>
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<tbody>
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<td>2013</td>
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<td>215</td>
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<tr>
<td>2014</td>
<td>157</td>
<td>229</td>
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<tr>
<td>2015</td>
<td>163</td>
<td>242</td>
<td>405</td>
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<tr>
<td>2016</td>
<td>168</td>
<td>250</td>
<td>418</td>
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</tbody>
</table>
The number of invention disclosures per $10M R&D increased 52% over 2012.

Patent and copyright royalty income for FY16 was $468,000, a 76% increase over baseline and the second highest on record for the university.

The number of patents issued were 11 representing a 45% increase over prior year.

NSF grant expenditures per tenured, tenure-track faculty increased 41% from baseline.

A $805,000 grant secured from Smart Living.
Lever 2.3: Develop a culture of excellence in research, scholarship and creative activity among faculty, staff, and students
DIVERSITY

Lever 3.4: Promote inclusion and increase diversity of faculty, staff, students, and administrators to remain relevant and competitive in a global environment

- Total Student Diversity %: 13%
- Number of Female Students: 2,009
- Number of Underrepresented Minority Students: 740
- Increase in Female Faculty: 38%
- Increase in Underrepresented Faculty: 6%
ANNUAL DONORS

**Lever 3.9: Conduct a comprehensive fundraising campaign to secure private support for identified campus priorities**

- The number of major gift solicitations increased by **71%**
- Planned gift commitments increased by **150%** in dollar value over prior year
- Direct mail revenue was up **40%**
- Phone-a-thon held steady at **$2.2 million**
- In fall 2015, Missouri S&T launched a campaign to raise $1 million in support of Rolla Rising Scholarships. Every gift of $25,000 or more in support of the scholarships will be matched dollar for dollar through $500,000 in matching funding provided by generous donors
  - University Advancement launched the Rolla Rising match campaign for flexible scholarships and four endowments were secured to date
ENHANCING INSTRUCTION

Lever 4.2: Enhance instructional labs and methods of developing lab experience

- **Civil Engineering’s Mechanics of Materials Lab** developed blended lectures and labs
  - Content for the course was delivered as distance using customized lab kits
- **General Chemistry Lab** became a blended course
  - Students conducted half the activities (in-the-lab) and half the activities (in-the-commons)
- **Microbiology Lab** became a flipped course
  - Students watched videos prior to lab with online quizzes
- **General Biology Lab** became the first online general biology lab for non-majors
  - Students purchased a kit to perform 13 experiments at home
- **Cellular Biology Lab** became a flipped course
  - Mini-lectures and video demonstrations online
  - Dedicated class time to “hands-on”
• Human resources, institutional equity and inclusion developed an eight-module professional development series for academic administrators
  – Module one covered faculty recruitment
  – Module two covered finance and budget
  – Module three was leading by influence, not authority
  – Module four emphasized policies and procedures
  – Module five highlighted tips on conflict resolution in the academic world
  – Module six covered Title VII and Title IX
  – Module seven concentrated on leveraging university advancement
  – Module eight focused on student success strategies
The Student Veteran Resource Center (SCRC) had a soft launch in fall 2015. Over 100 veterans visited the center in the spring. Night to Network allowed veterans to network with employers the night before the career fair. A sash was created to identify veterans as they walk at graduation. A student service specialist was hired to assist veterans with coaching, mentoring, tutoring, basic academic advising. A newsletter, website and a Facebook page have been developed.
UPCOMING EVENTS

• NOVEMBER 10
  • Campus Community Strategic Plan Mid-Cycle Opportunity Review
  • 170+ constituents participating

• NOVEMBER 11
  • Review of metrics and goals
  • 50 constituents participating

• FEEDBACK
  • Town hall sessions for each college
  • Town hall sessions open to campus community
  • Website