The Vision for Missouri S&T & Engagement

Dr. Christopher G. Maples Interim Chancellor



Vision

Vision

Missouri S&T will be the leading public technological research university for discovery, creativity and innovation.

We will cultivate curiosity, creativity and confidence in our graduates.

We will be the institution of choice for partners around the world ... to solve the great challenges of our time.

MISSOI R

"To be a premier land grant institution dedicated to the creation and inclusive sharing of knowledge to advance the educational, health, cultural, economic and social interests of the people of Missouri, the nation and the world"

Missouri Compact

 Missouri Compact for Excellence in Student Success is to:

- $_{\odot}$ Increase academic quality and diversity
- **o Enhance learning experiences**
- Increase flexible paths to learning and degree completion
- o Increase professional development
- Increase retention and graduation rates

 \circ Improve career outcomes

Increase affordability

Reduce debt at graduation and loan default rates



Missouri S&T: History & Advantage

- 98 degree programs, 39 areas of study
- Broad range of engineering and computing degree programs (18)
- Cooperative Engineering Program with Missouri State
- Experimental Mine, named Popular Science's "awesome college lab"
- Missouri's first nuclear reactor
- Experiential learning
- Missouri S&T offers the nation's only Ph.D. in explosives engineering



Dr. Catherine Johnson Explosives Engineering



Student Success and Outcomes

- \circ Increase support for Pell recipients
- \circ Increase access to open educational resources
- \circ Increase access to distance learning curriculum
- Increase articulation agreements with Community Colleges
- \odot Increase experiential learning opportunities
- Increase job placement and matriculation for graduate & professional studies



S&T Experience: genuine critical thinking

Missouri S&T Mars Rover Design Team Winners of the 2017 University Rover Challenge



Successful graduates in high demand

Starting salary potential

22nd in the nation public and private
8th in the nation public universities
1st in Missouri public and private



Undergraduate starting salary: \$61,831

Graduate starting salary: \$76,632

Employer satisfaction with S&T hires is 100% S&T students: smart, engaged, 70% Missourians S&T's first-year students

38% involved inProject Lead TheWay

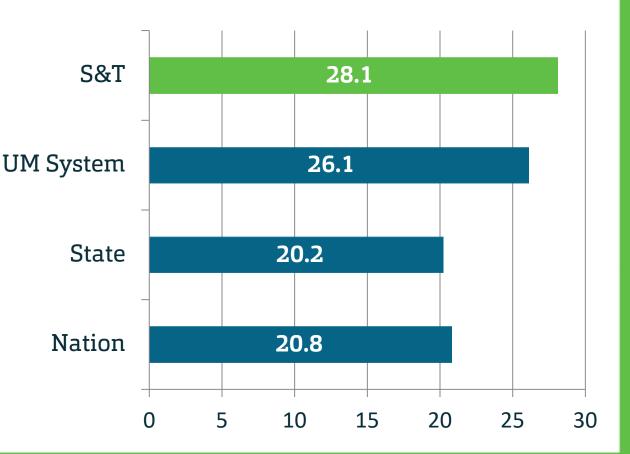
31% involved in VEX or FIRST Robotics

22% attended an UI S&T summer camp

21% are first generation

MISSOURI

ACT averages for our first-year students



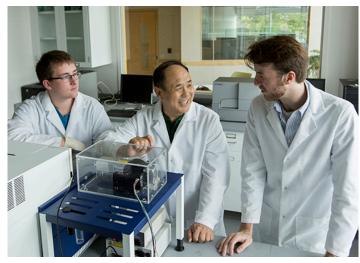
Missouri Compact

 Missouri Compact for Excellence in Research and Creative Works is to:

- $_{\odot}\,$ Increase intellectual merit and broader impact
- o Increase extramural research
- Increase high-quality publications and citations
- Increase faculty awards and recognition
- $_{\odot}\,$ Increase curated exhibits and juried performances



Missouri Compact: Faculty Awards & Recognition



Ma named American Chemical Society Fellow







Ferguson named Royal Society of Arts Fellow



Xiao named Canadian Academy of Engineering Fellow

Missouri Compact

 Missouri Compact for Excellence in Community Engagement and Economic Development is to:

- Build a climate that values the background, experiences and perspectives of every Missourian
- Increase effective partnerships in the areas of educational, health, cultural, economic and social issues with local, state and global communities

• IP, patents, start-ups, & other spin-off opportunities



Missouri Compact: Economic Development

FY2017 - a record-breaking year at Missouri S&T for technology transfer.

\$540,396 received in royalty income (>2X 2013)

- \$187,998 in royalties paid to inventors and authors
- \$121,177 in royalty income returned to S&T departments (~ \$25,000 more than 2016)
- ✤47 new invention disclosures, including five software disclosures



A leader in infrastructure research





Chemistry, Biology, & Bioengineering Complex



Phase I: James E. Bertelsmeyer Hall

<u>\$22.3M—100% S&T + donors</u>

Opened Fall 2014

Schrenk Hall upgrade (Phases II &III)

Phase II: \$18M (\$12M State; \$6M University)

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Phase III: \$54M request (~57% total project cost)

Thank you! Questions? Comments?



BY THE NUMBERS

8,838 students: 6,909 undergrads and 1,929 grads



91% increase in enrollment since 2000