The Vision for Missouri S&T & Engagement

Dr. Christopher G. Maples
Interim Chancellor
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.

“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:
  - Increase academic quality and diversity
  - Enhance learning experiences
  - Increase flexible paths to learning and degree completion
  - Increase professional development
  - Increase retention and graduation rates
  - 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

- Increase support for Pell recipients
- Increase access to open educational resources
- Increase access to distance learning curriculum
- Increase articulation agreements with Community Colleges
- **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

38% involved in Project Lead The Way

31% involved in VEX or FIRST Robotics

22% attended an S&T summer camp

21% are first generation

ACT averages for our first-year students

- S&T: 28.1
- UM System: 26.1
- State: 20.2
- Nation: 20.8
Missouri Compact for Excellence in Research and Creative Works is to:

- Increase intellectual merit and broader impact
- Increase extramural research
- Increase high-quality publications and citations
- **Increase faculty awards and recognition**
- Increase curated exhibits and juried performances
Missouri Compact: Faculty Awards & Recognition

Ma named American Chemical Society Fellow

Xiao named Canadian Academy of Engineering Fellow

Ferguson named Royal Society of Arts Fellow

July 2017
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
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

Advanced Construction and Materials Laboratory
Chemistry, Biology, & Bioengineering Complex

Phase I: James E. Bertelsmeyer Hall
$22.3M—100% S&T + donors
Opened Fall 2014

Schrenk Hall upgrade (Phases II &III)

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

Phase III: $54M request (~57% total project cost)
Thank you! Questions? Comments?
8,838 students: 6,909 undergrads and 1,929 grads

71% Missourians
16% out-of-state
13% international

77% men
23% women

91% increase in enrollment since 2000