

UNIVERSITY OF MISSOURI SYSTEM

Four campuses in UM System:

 Missouri University of Science and Technology (Missouri S&T)



- University of Missouri-Columbia (MU or Mizzou)
- University of Missouri-Kansas City (UMKC)
- University of Missouri-St. Louis (UMSL)

FALL 2017 BY THE NUMBERS

8,884 students: 6,920 undergrads and 1,964 grads

70% Missourians

18% out-of-state

11% international

77% men

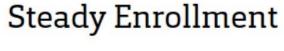
23% women

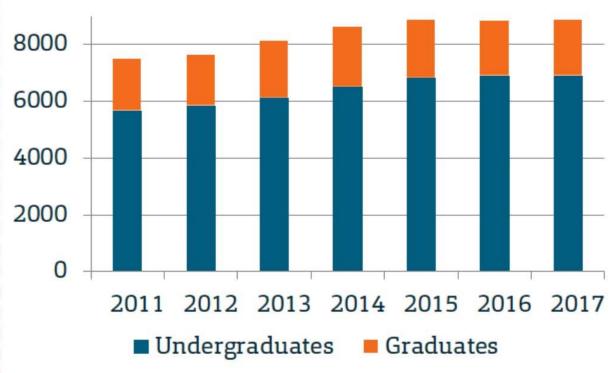
73% white

13% minority

11% international

2% not specified





Totals may not equal 100% due to rounding.

HISTORY & ADVANTAGE

- Founded in 1870 as the Missouri School of Mines and Metallurgy
- 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 and genuine critical thinking
- S&T offers the nation's only Ph.D. in explosives engineering



Dr. Catherine Johnson Assistant Professor, Explosives Engineering

SUCCESSFUL GRADUATES

Return on Investment

8th in the nation for annual ROI 6th in the nation for public universities 1st in Missouri colleges and universities

2017 PayScale College ROI Report



Average undergraduate starting salary:

\$62,314

Average graduate starting salary:

\$80,892

2017 Fall Career Fair:

315 employers 3,800 students

2016-2017 data from S&T's Career Opportunities and Employer Relations (COER)

SUCCESSFUL GRADUATES



Most popular majors

- Mechanical Engineering
- Computer Science
- Electrical Engineering
- Engineering Management
- Chemical Engineering

Top Hiring Employers

The Boeing Company

Cerner

Honeywell

Burns & McDonnell

MoDOT

T&TA

Accenture

Anheuser-Busch

Ford Motor Company

EN Engineering

Intelligrated

Amazon

2016-2017 data from S&T's Career Opportunities and Employer Relations (COER)

ABOUT OUR STUDENTS

About our first-year students

39% involved in Project Lead The Way

30% involved in VEX or FIRST Robotics

22% are first generation

19% attended an S&T summer camp

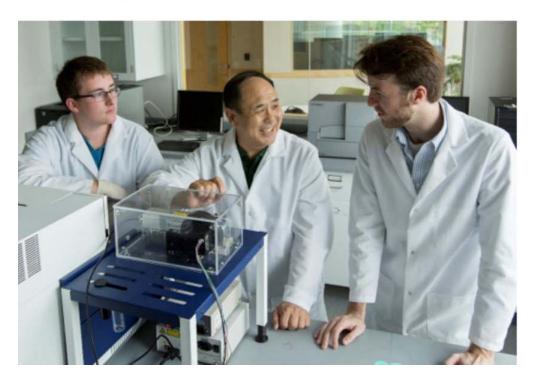
Average ACT score: 28



INNOVATION AND DISCOVERY

Research that tackles the world's greatest challenges

Dr. Yinfa Ma's P-scan technology could provide early cancer detection Bioactive glass fiber developed at S&T and MO-SCI speeds healing of wounds





CONNECTING MISSOURI

Two national University Transportation Centers at S&T

- Research and education aimed at solving problems affecting nation's aging infrastructure
- Technology developed at S&T used in dozens of Missouri bridges, including bridge on Highway 50 east of Jefferson City
- Developing robotic tools (drones) to monitor and inspect bridges



2017 NEW FACULTY

Areas of expertise and research include:

- American Revolution
- Asphalt applications
- Astronautical engineering
- Comparative politics
- Computer networks
- Complex electricity markets
- Computational mathematics
- Cybersecurity
- Environmental economics
- Isotopic and environmental geochemistry

- Genetics
- Hydraulic fracturing
- Industrial organization
- Infrastructure sustainability
- International relations in Smart buildings high-tech sectors
- Irradiation effects in materials
- Modeling electromagnetic fields
- Music history
- Neural networks
- Partial differential equations from fluid dynamics

- Petroleum engineering
- Piezoelectric nanomaterials
- Plasma dynamics
- Power system planning
- Smart transportation
- Social & political theory
- Transportation engineering
- Ultra-high temperature materials
- Wireless and sensor networks

New faculty come from these universities:











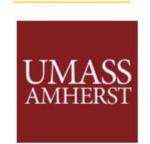


















Alfred University







Rensselaer 4 of Arizona.

J NORTH DAKOTA STATE UNIVERSI



FACULTY AWARDS & RECOGNITION



Dr. Yinfa Ma named American Chemical Society Fellow



Dr. Julia Medvedeva leading \$1.6 million NSF grant on materials



Dr. Bonnie Bachman receives Leavey Award for Excellence in Private Enterprise Education



Dr. Ian Ferguson named Royal Society of Arts Fellow



Dr. Wan Yang leading \$2.1 million NSF grant on Permian extinction

ECONOMIC IMPACT

The state is served by Missouri S&T and UM System:

6,547 Missouri S&T students from Missouri

2,616 S&T employees & retirees

21,027 S&T alumni residing in Missouri





In Phelps County:

\$962,000 UM construction projects with local vendors

\$3.5 million UM state tax revenue

\$16.5 million UM federal tax revenue

\$98.6 million UM salary and retirement income

2016 data reported by UM System

ECONOMIC IMPACT

Students are expected to spend approximately \$24 million in Rolla this academic year.

\$1,975 average spent by freshmen

\$2,720 average spent by upperclassmen

\$5,700 average spent by grad students & families

161,000 vacant STEM jobs in Missouri projected for 2022

\$3 million annual increase in state GDP per engineer



COMMUNITY INVOLVEMENT

- Celebration of Nations
- Haunted Mine
 - Oct. 20-21, Oct. 27-28 & Oct. 31
- Visitor nights at Missouri S&T Observatory
- Homecoming, Oct. 27-29 weekend
- Leach Theatre
 - William Shatner will present "Shatner's World" on Oct. 29
- Service days (e.g. Martin Luther King Jr. Day of Service and St. Pat's Gonzo Gives Back Day of Service)
- Student organizations (e.g. Society of Women Engineers hosts annual lock-in with high school girls)





THANK YOU!

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

