The mission of the Missouri S&T Civil, Architectural and Environmental Engineering Department has remained constant since its founding: to prepare outstanding “street ready” engineers. Today, our reputation as one of the top civil engineering programs in the United States is a testament to our success in training leaders in the field.

Preparing our graduates to solve the technical and engineering challenges of a global society.

If we are to continue graduating outstanding “street ready” engineers and setting the standard for engineering education, our graduates must be prepared for a professional world that is rapidly changing and increasingly interdisciplinary. The engineers of the 21st century must be skilled in their specialty areas, but they also must be leaders, collaborators, and communicators with a bold and creative mindset. These skills will make our graduates even more valued as they face engineering challenges on “streets” around the world, whether those streets are in the Bolivian Andes, or in modern Dubai, or maybe even on the Moon or Mars.

Our department has embraced a new and exciting vision and developed a strategic plan focused on that future. The plan includes program changes, expanded experiential learning opportunities, improvements in laboratory facilities, and new scholarship and fellowship programs.

Vision 2020: Strategic Objectives

To meet and exemplify the ideals at the core of our mission, our strategic plan will advance the department in the following key areas:

• Preparing graduates to solve technical and engineering challenges around the world for generations to come.

• Enhancing our national reputation among employers, future students and peer institutions so that we are known as “a destination of choice.”

• Engaging in multi-disciplinary scholarly activities that foster knowledge creation and technology transfer in targeted areas.

Achieving these goals will be integral to our department’s growth as a destination of choice for top students, a leader in preparing engineers for the global workplace, and a nationally recognized research institute.

Vision 2020: Strategic Themes

We have identified four strategic themes critical to positioning our department on the frontline of excellence for decades to come:

1. **Enhance our educational programs and delivery methods** by offering our students innovative programs and opportunities such as integrated BS + MS programs and required experiential learning activities.

2. **Recruit an even greater number of top students** by making admission to our programs more competitive, offering increased scholarship support to students who enroll in new programs (such as our integrated BS + MS program), and establishing competitive fellowships for graduate students.

3. **Promote interdisciplinary teaching and research collaborations** within the department and across campus by investing in faculty development to support the department’s education and research portfolios.

4. **Nurture knowledge creation and technology transfer** to drive transformative change through faculty and student research that demonstrates academic distinction, value to industry, and the promise of breakthrough discoveries in targeted technical areas.
We need your advocacy and participation!

Please join us by helping us prepare engineers to meet the ever-changing challenges of our world.

Building the Best

Our graduates MUST be equipped to EXCEL in an ever-changing world.

Whether they are designing an infrastructure with a zero energy footprint, bringing clean water to a remote village, leading a multinational team of social entrepreneurs, or building a suspension bridge with advanced engineering materials, they must have the flexibility, fluency and foresight to lead.

Vision 2020: Strategic Needs

The following list outlines the financial resources needed to realize the goals of our bold vision. The Academy leadership has endorsed this vision and will soon be undertaking a grass-roots campaign to help make it a reality. Many opportunities exist at varying levels to help the department carry out its vision of excellence and to reach the target amounts listed below.

**Facility Enhancements***

- Advanced Construction Materials Laboratory .................. $7.0M
- High Performance Building Research Center .................... $3.0M

**Investment Opportunities***

- Student Learning Experience ........................................ $9.5M
- Experiential Activities Coordinator .................................. $1.5M
- Professor of the Practice ............................................. $3.0M
- Study Abroad Program Fellowships ................................. $1.5M
- Graduate Student Scholars Fellowship Program ............... $3.5M
- Faculty Development .................................................... $2.4M
  - Faculty Excellence Fellowship Program ....................... $1.2M
  - Entrepreneurship and Innovation Program .................. $1.2M
- Infrastructure Enhancement ........................................... $3.3M
  - Laboratory Staff Support .......................................... $1.5M
  - Laboratory Equipment and Instrumentation ................. $1.8M

* Multiple opportunities exist within each category and sub-category

With your support, we will make our exciting vision a reality!