

**A BOLD VISION FOR THE FUTURE**

THE CAMPAIGN FOR  
**UNM SCHOOL OF  
ENGINEERING**



# UNM ENGINEERING: STRONG PAST, LIMITLESS FUTURE

## WHAT WE'RE KNOWN FOR

Foremost, we're known for our proximity and strong collaboration with Sandia National Laboratories, Air Force Research Laboratory, Los Alamos National Laboratory. These connections set the standard for academic excellence and research prominence. Many of our students work or intern at these facilities, gaining unparalleled experience few other universities can offer.

UNM is a member of the Sandia Academic Alliance, along with University of Illinois at Urbana-Champaign, University of Texas at Austin, Purdue University, and Georgia Institute of Technology.

UNM is the only university in New Mexico to receive a designation of R1, the highest research activity by The Carnegie Classification of Institutions of Higher Education.

## DEPARTMENTS

Chemical and Biological Engineering  
Civil, Construction and Environmental Engineering  
Computer Science  
Electrical and Computer Engineering  
Mechanical Engineering  
Nuclear Engineering

## RESEARCH CENTERS

Center for Biomedical Engineering  
Center for Emerging Energy Technologies  
COSMIAC (aerospace research)  
Manufacturing Training and Technology Center  
Institute for Space and Nuclear Power Studies  
Center for Water and the Environment  
Resilience Institute

# #13

Nuclear Engineering  
U.S. News & World Report  
Best Graduate Schools, 2020

# 21%

undergraduates  
are female

# \$363K

ANNUAL RESEARCH  
EXPENDITURE PER FACULTY  
MEMBER

# 67%

undergraduates from  
underrepresented  
groups

# #32

UNM world ranking of  
universities in patents  
granted in 2017



# THE CAMPAIGN FOR UNM ENGINEERING

Over the past 100 years, The University of New Mexico School of Engineering has been transforming students to tackle our world's most challenging problems. Through our collaborations with the UNM School of Medicine, Anderson School of Management, and the School of Architecture and Planning, among others, our graduates leave UNM with a multidisciplinary set of knowledge.

UNM generates \$3.1 billion in economic output, which includes the impact of alumni in the workforce, spending by out-of-state students, and UNM's technology transfer and economic development activities. This translates into 24,985 jobs and \$3.5 billion in annual employee compensation.\* As one of UNM's largest and most research-active schools, the School of Engineering certainly has played a major role in this economic impact.

We have big plans for the School, and it is vitally important that we identify new and sustainable streams of support to ensure that our innovation and learning continues to thrive.

Therefore, we are launching a **bold vision for the future** with four main focuses:

- » EMPOWERING STUDENTS
- » STRENGTHENING EDUCATIONAL LEADERSHIP
- » ACCELERATING RESEARCH
- » CREATING COLLABORATIVE SPACES

\*2018 study commissioned by STC.UNM

# EMPOWERING STUDENTS



Students are the lifeblood of UNM Engineering, and we are committed to keeping the best and brightest in New Mexico and attracting top students to our state. To empower students, our goal is to raise the necessary funds to increase our scholarship offerings so that every deserving student and every student in need receives a scholarship or fellowship. Today, the UNM School of Engineering awards about \$1 million in scholarships annually. However, more than 75 percent of our undergraduates have a financial need of \$3,000 or more and even after loans, grants and other aid, more than half still have unmet need. Increasing our scholarship endowment today will ensure the success of students into the future.

In addition to scholarships, we are also striving to empower students by securing permanent funding for our Engineering Student Success Center. Support for this important student hub will provide essential resources which will allow us to continue to connect students to internship and career networking opportunities, to provide a home for around a dozen student organizations, and to facilitate tutoring services.

Our goals are to:

- Create a permanent fund for the Engineering Student Success Center.
- Provide scholarships for all deserving students.
- Recruit top students to keep talent in New Mexico.
- Support engineering societies and student professional development.
- Fund student design projects and foster entrepreneurship and exploration.






As a top 100 engineering school, as ranked by *U.S. News & World Report*, the UNM School of Engineering competes against universities across the nation for top faculty. In order to attract and retain the best educators and researchers, it is essential that the School fund endowed faculty positions. Endowed chairs and professorships allow the School to compete not only with other universities but also with business, industry, and government. A named faculty position is a prestigious honor, and the resources that are made available to the recipient are even more important. By providing additional funds for research projects and course development, endowed chairs and professorships allow top faculty to take their scholarship to the next level and integrate discovery and education in new ways.

Our goals are to:

- Establish endowed chair positions in key strategic areas.
- Recruit and retain top faculty by establishing endowed professorships.
- Nurture junior faculty to develop future academic leaders.
- Provide faculty with the freedom to innovate and be creative.



# ACCELERATING RESEARCH



Our world is facing grand challenges, and engineers will play a key role in finding solutions. Powering that research takes transformational funding from various sources in order to give students — both undergraduate and graduate — the best high-tech facilities and opportunities to gain valuable experience. Strong research institutions are economic engines, bringing expertise and national funding to the local community.

Our goals are to:

- Enhance our areas of expertise, including cybersecurity, water resources, quantum computing, and materials science.
- Fund innovation.
- Explore new areas of local and global importance.
- Continue to respond to challenges with engineering-based solutions in the community and beyond.
- Recruit and retain top graduate students to help drive discovery with faculty.



# CREATING COLLABORATIVE SPACES

## PROPOSED ENGINEERING CORRIDOR ON CENTRAL AND UNIVERSITY



“If you build it, they will come.” The line from a popular movie is true for UNM Engineering. New collaborative spaces like Farris Engineering Center and Centennial Engineering Center have helped increase our student enrollment, faculty recruitment, and research expenditures. Since 2008, when Centennial Engineering Center opened, enrollment in civil engineering rose 58 percent, and from 2015 to 2018, computer science enrollment rose 70 percent (the restyled Farris Engineering Center opened in early 2018).

Simply stated, facilities attract and retain students and provide dedicated space for interdisciplinary collaboration, education, and specialized labs. Space is at a premium on campus, but utilizing our creativity, funds raised will be used to transform the southwest corner of campus into a world-class engineering corridor.

### Our goals are to:

- Build a new, interdisciplinary engineering facility on Central and University, connected by a bridge, that transforms existing space into a state-of-the-art building that unites all disciplines, from engineering honors students to global student services to researchers performing classified work for national labs.
- Accelerate research, learning, and innovation through greater collaboration between Engineering and the UNM campus.
- Provide students and faculty with expanded space in which to discover, learn, and develop lasting connections.

# OUR VISION FOR THE FUTURE



The UNM School of Engineering has many needs to continue its successful growth now and in the future. Our success is possible only with the generosity of our friends and alumni. Every gift, no matter the size, can help the School achieve its vision and help future scholars be successful. We hope you will join us by giving to the Campaign for UNM Engineering. Your generosity makes a difference.

## EMPOWERING STUDENTS

Scholarships	\$15M
Permanent funds for the Engineering Student Success Center	\$5M

**Total need: \$20M**

## STRENGTHENING EDUCATIONAL LEADERSHIP

Endowed chair positions	\$7M
Endowed professor positions	\$6M
Endowed junior faculty positions	\$2M

**Total need: \$15M**

## ACCELERATING RESEARCH

Fund new areas of local and global importance	\$2M
Update, expand, and upgrade labs	\$9M
Graduate fellowships	\$4M

**Total need: \$15M**

## CREATING COLLABORATIVE SPACES

Rebuild the corner of Central and University to create a world-class engineering corridor

**Total need: \$25M**

**CAMPAIGN TOTAL:  
\$75 million**



To make a gift or learn how your gift can help the UNM School of Engineering, please contact:

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