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David E. Daniel
President
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Join us in supporting the vision for what this University can become.
Within our laboratories are the students and faculty who are making the fundamental discoveries that will become the underpinnings of the technologies of tomorrow.

I am very fortunate to address you as the Dean of the School that probes the most fundamental aspects of our universe: the School of Natural Sciences & Mathematics. Within our laboratories are the students and faculty who are making the fundamental discoveries that will become the underpinnings of the technologies of tomorrow.

We welcome you to our school of discovery, and we invite you, through your support, to become part of the team. As a team member you will have an impact on making artificial muscles and invisibility cloaking devices from carbon nanotubes, on developing smart molecules that detect and treat cancers at their earliest stages, on working with internationally renowned scientists to uncover the most fundamental particles that make up our universe, on discovering vast untapped natural resources on our planet and building instruments that travel on spacecraft to look for signs of life on distant planets. All this and much more is taking place in the School of Natural Sciences & Mathematics.

Come, and be part of this ever-deepening journey of discovery.

Bruce M. Novak, PhD
Dean & Distinguished Chair in Natural Sciences & Mathematics
FROM NANO TO GLOBAL AND BEYOND

From the smallest scale nanotech devices to theories that define our universe—or multiverse—the innovative curriculum and challenging laboratory studies at the School of Natural Sciences & Mathematics spans the breadth and depth of the fundamental sciences and research that will drive knowledge and innovation for generations to come.

Students in the School of Natural Sciences & Mathematics study under the guidance of world-class faculty, participate in unique and groundbreaking research, and graduate well prepared to begin their careers or to continue their education. Our highly prized students are sought out by academic institutions, government and the private sector for their disciplined and rigorous approach to solving real-world problems.

As part of our evolving research environment, students can participate in:
- Developing new flexible solar panels that can be incorporated into backpacks, clothing and other unconventional places.
- Discovering and furthering the mathematical underpinning of today’s physical theories that will guide our future technological advances.
- Learning new ways of delivering science, technology and mathematics education to our Texas youth to ensure all students are equipped with the knowledge they need to succeed.
- Un-teasing the intricate molecular dances that make up living organisms and create medical pathways of putting them back in-step whenever they falter.

WHY SUPPORT THE SCHOOL OF NATURAL SCIENCES & MATHEMATICS?

- The School of Natural Sciences & Mathematics helps fill the critical need for scientists and mathematicians.
- The School of Natural Sciences & Mathematics provides high-quality academic programs necessary to prepare our students for future leadership positions in local industries and national corporations.
- The School of Natural Sciences & Mathematics gives students an opportunity to conduct sophisticated research and a chance to work with industry partners to share their findings of new techniques, pertinent information and important discoveries.
Dave Williamson would love to say that he knew he wanted to be a geologist from the time he was in high school, but the truth is that he came to UT Dallas without a clue of what his future would hold. Then he took a geology class and, if you’ll forgive us, it rocked. Williamson wound up staying in the School of Natural Sciences & Mathematics for his undergraduate degree and not one but two master’s degrees in geosciences and geospatial information sciences.

“Once I found my area of interest,” he says, “it was infectious, I wanted to keep learning more and more. The quality of the education I received at the School was exceptional. I learned how to use my mind and ingenuity to solve real-world problems, which has helped me get ahead in my career.”

One major challenge affecting world economies is how to make the transition from the era of fossil fuels to the era of renewable energy, and Williamson, now a Senior Geologist at Pioneer Natural Resources in Irving, is on the front lines tackling that problem.

Williamson sees natural gas as “the most reliable and abundant bridging technology as we transition to renewable energy sources. We are still a few years from a practical and profitable widespread use of solar and wind power—in the meantime the U.S. has lots of natural gas, which can power everything from cars to electric generating plants.”

“In the last decade, shale deposits have become viable targets for hydrocarbon exploration,” says Williamson, “and we’re continually refining our understanding of these shale plays in the lower 48 states. New technologies have made it possible to extract hydrocarbons from these less porous source rocks. These deposits of oil and particularly natural gas are going to have a profound impact in the years ahead.”

Williamson’s employer—Pioneer Natural Resources—sees UT Dallas as a key partner in their future and in the energy future for this country. They’ve demonstrated this partnership by making a campaign commitment of $600,000 to support Geosciences education and research.

“My fellow alumni at Pioneer were honored when we learned of this gift,” Williamson says. “I’m very proud to be associated with UT Dallas and the School of Natural Sciences & Mathematics. The evolution and growth of the University has been amazing in recent years. Many goals have been achieved, but there is more to be done. This city and this region need the resources and results of a Tier One research university, and it’s time we help make it happen.”
The School of Natural Sciences & Mathematics is poised for the greatest chapter in its history. But our success will require significant philanthropic support to become one of the top tier schools in the country. There are five areas of funding critical to becoming Tier One:

**Endowed Chairs and Professorships**
Endowed chairs and professorships give the School of Natural Sciences & Mathematics greater impact as a world-class institution. These endowments help attract and retain the brightest teachers and researchers, continuing the great legacy that includes three Nobel Laureates among our faculty: Alan MacDiarmid, 2000 Nobel Laureate in Chemistry; Russell Hulse, 1993 Nobel Laureate in Physics; and Polykarp Kusch, 1955 Nobel Laureate in Physics.

**Undergraduate Scholarships**
Scholarships are a critical component to maintaining an exceptional student body. With significant competition to recruit and retain students who have demonstrated superior academic achievement, scholarships are a vital component of our campaign goal.

**Endowment Support for Centers and Outreach**
The School’s leading-edge centers and educational outreach programs must strengthen their resources to continue their vital missions. These distinctive programs include the Center for Lithospheric Studies, the NanoTech Institute, the UTeach program, and the Science and Engineering Education Center.

**Science Learning Center Building and Other Facilities Support**
Our facilities must match the talents and aspirations of those who will use them. These funds will enable the School to scale-up and modernize many areas in need of renovation, including labs, classrooms and auditoriums.
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The founders of UT Dallas—Eugene McDermott, Erik Jonsson and Cecil Green—shared a vision. They saw the need for a great research university in North Texas, and they set a lofty goal by publicly announcing their confidence that UT Dallas would one day become the “MIT of the Southwest.”

UT Dallas has made remarkable strides since this bold vision was set in motion a half-century ago. This comprehensive campaign—the first in UT Dallas history—will accelerate our progress toward becoming the world-class Tier One research university the founders envisioned for North Texas.
## CAMPAIGN PRIORITIES

### SCHOOLS

<table>
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<tr>
<th>School</th>
<th>Goal</th>
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</thead>
<tbody>
<tr>
<td>Arts &amp; Humanities</td>
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<tr>
<td>Behavioral &amp; Brain Sciences</td>
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<tr>
<td>Economic, Political &amp; Policy Sciences</td>
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<td>Jindal School of Management</td>
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<td>Jonsson School of Engineering &amp; Computer Science</td>
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<td><strong>NATURAL SCIENCES &amp; MATHEMATICS</strong></td>
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### MAJOR CENTERS

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<tr>
<td>Asia Center</td>
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<tr>
<td>Callier Center for Communication Disorders</td>
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<td>Center for BrainHealth</td>
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<td>Center for Vital Longevity</td>
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### MAJOR UNITS

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<tr>
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<td>Diversity &amp; Community Engagement</td>
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<td>McDermott Library</td>
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### ALL OTHER GIFTS

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<th>Gifts</th>
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<tbody>
<tr>
<td>Other Units and Unrestricted Gifts</td>
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### TOTAL CAMPAIGN GOAL

$200,000,000
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