



**BE BOLD.** Shape the Future.  
**College of Engineering**

**GODDARD**  
B R O A D C A S T

Spring 2022



## NMSU PROFESSOR TACKLING TWO BIG SOCIETAL ISSUES WITH NSF CAREER AWARD

David Mitchell is tackling two of society's biggest problems with one ambitious project. The New Mexico State University assistant professor is researching technological methods to increase the world's rapidly increasing need for expanded communications capacity. At the same time, he hopes to inspire the next generation of students to pursue STEM fields and address the world's emerging technological needs.

Read More: [bit.ly/AggiePower](https://bit.ly/AggiePower)



## NMSU GEOMATICS PROGRAM RECEIVES ACCREDITATION

New Mexico State University's bachelor's degree program in geomatics has been accredited by the Applied and Natural Science Accreditation Commission of ABET, the global accreditor of college and university programs in applied and natural science, computing, engineering and engineering technology.

Read More:  
[bit.ly/GeomaticsABET](https://bit.ly/GeomaticsABET)





## NMSU, EL PASO ELECTRIC UNVEIL AGGIE POWER SOLAR PROJECT

Sunlight gleams off a new installation of 10,000 solar panels standing between Interstate 10 and Interstate 25 in Las Cruces in a once-vacant, 29-acre lot on New Mexico State University's Arrowhead Park.

The site is now the home of NMSU's latest renewable energy venture, Aggie Power, a solar array that will generate enough clean electricity to power about half of the 900-acre Las Cruces campus and serve as a living laboratory for NMSU students and faculty.

Read More: [bit.ly/AggiePower](https://bit.ly/AggiePower)



## NMSU'S PSL CO-OP PROGRAM PREPARES STUDENTS FOR CAREERS IN NATIONAL SECURITY



Ten New Mexico State University students selected for the Physical Science Laboratory Classified Ready Employee Workforce or CREW program started their journey and exploration into the national security sector this semester.

Read More: [bit.ly/PSLcoopInside Center](https://bit.ly/PSLcoopInside Center)



## ENGINEERING FACULTY RECOGNIZED FOR EXCELLENCE IN RESEARCH

Two College of Engineering faculty members were honored for excellence in research and creativity at NMSU's spring 2022 convocation, held Jan. 11.

Ehsan Dehghan-Niri, assistant professor in the Civil Engineering Department and affiliated faculty member in the Mechanical and Aerospace Engineering Department, received the Early Career Award.

Dehghan-Niri established NMSU's Intelligent Structures and Nondestructive Evaluation laboratory, which allows for



Ehsan **Dehghan-Niri**

state-of-the-art, non-destructive testing capacities for industrial, aerospace and structural materials. He has authored more than 25 scientific journal publications and 14 U.S. and European patents, and in 2021, he received the NSF CAREER Award, one of the National Science Foundation's most prestigious awards.

Jessica Houston, professor of chemical and materials engineering, received a Distinguished Career Award.

Houston's research expertise includes biomedical engineering, with an emphasis on flow cytometry instrument development, biophotonics and optofluidics. She directs an on-campus flow cytometry instrumentation lab and has advised more than 50 undergraduates, graduate and postdoctoral students in her 12 years at NMSU.



Jessica **Houston**

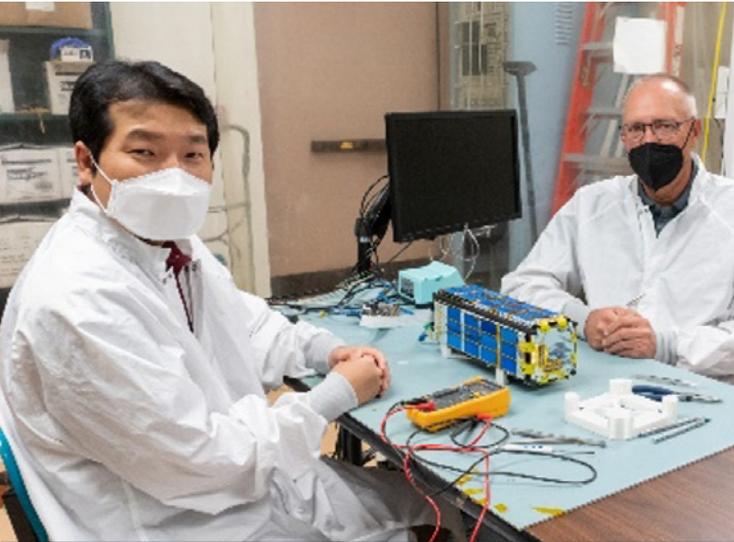
## NMSU ALUM RICHARD LEZA INDUCTED INTO NMSU'S ENTREPRENEUR HALL OF FAME



Businessman and New Mexico State University engineering alumnus Richard Leza has been named the third inductee in the NMSU Entrepreneur Hall of Fame by NMSU's Arrowhead Center and the Office of the Vice President for Research and Graduate Studies.

**Read More: [bit.ly/RLeza](https://bit.ly/RLeza)**





## NMSU ENGINEERING STUDENTS **EXPLORE** NEW TECHNOLOGY FOR THE 'NEW SPACE ERA'

Engineering students at New Mexico State University are working with aerospace industry leader Northrop Grumman on projects that may someday solve issues for military and commercial satellite missions with CubeSats—miniature space vehicles that have big impact on our lives today and the promise of even more for the future.

**Read More:** [bit.ly/NewSpaceEra](https://bit.ly/NewSpaceEra)



## NMSU GRADUATES **AID COMMERCIAL** SPACE TRAVEL **ADVANCEMENTS**

Spaceport America, which is owned and operated by the state of New Mexico, hosted Virgin Galactic's first commercial passenger spaceflight with Virgin founder Sir Richard Branson on board Unity 22 in July 2021.

**Read More:** [bit.ly/NMSpace](https://bit.ly/NMSpace)



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“Goddard Broadcast” pays homage to wireless communication pioneer Ralph Willis Goddard, one of the founders of the engineering school in 1914, and former dean of engineering at NMSU, originally known as the New Mexico College of Agriculture and Mechanic Arts.

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