

# DAWN OF A NEW AGE: THE UCLA SPACE INSTITUTE

Mere decades ago, a U.S. flag on the Moon was the only sign of human activity in space. Today, space is humming with activity: GPS and weather satellites, flights to the International Space Station, and exploratory missions to Mars and beyond. Space technology has transformed lives on Earth, and space tourism could soon be commonplace. By the 2040s, the space economy is predicted to reach \$1-\$2.7 trillion.



For decades, UCLA has advanced space science, planetary exploration and technological innovation. UCLA is positioned to propel a new era of discovery with the launch of the **UCLA SPACE Institute** (SPACE = Space Physics, Applications, Communication, and Engineering).

The institute is envisioned as a world-leading hub for scientific research, new technology and private sector/government partnerships. Backed by major philanthropic, industry and institutional investment, the UCLA SPACE Institute will spur revolutionary advances, impact life on Earth in myriad ways, spark new industry ventures, and influence the course of space and galactic exploration for decades to come.

## WHO WE ARE

The UCLA SPACE Institute is a community of faculty, researchers and students from throughout campus and across disciplines—working to elevate space science through the symbiotic interaction of:

- Fundamental space physics research
- Technological innovations
- Holistic education and communication with the public
- Engagement with the private space sector

The institute is comprised of three departments in UCLA Physical Sciences—Atmospheric and Oceanic Sciences; Earth, Planetary, and Space Sciences; and Physics and Astronomy—with strong ties to the Samueli School of Engineering and the Anderson School of Management.

Going forward, UCLA is well poised to compete with funding proposals and collaborations on instrumentation, satellites, and science/theory/modeling, expanding upon these areas of established strength. New missions are being planned to Jupiter's moon Europa and other Galilean satellites, the other outer planets (Uranus, Neptune) and inner planets (Venus), with the involvement of UCLA leaders, scientists and instrumentation experts.



## WHY UCLA?

Going back to a time that predates the first space age of the 1940s, UCLA has been a leader in space science and technology, employing observational techniques, developing instruments and satellite platforms, and integrating basic theory, numerical modeling, machine learning, and laboratory plasma experiments. Our investigations encompass solar physics, solar wind interactions with terrestrial and planetary magnetospheres, and ionospheric physics, collectively known as 'space weather.' We are more committed than ever to this mission, given the ever-increasing human and technological presence in space. As the #1-ranked public university in the U.S., UCLA will engage its outstanding talent pool to take advantage of this grand opportunity.

## WHY NOW?

Recently, there has been unprecedented investment in the space sector from government and industry, much of it occurring in and around southern California. This growth will create demand for thousands of qualified space professionals, with unique transdisciplinary expertise that spans research and real-life applications. UCLA can deliver on that front by providing hands-on training with real-world applications, preparing students and career professionals alike to succeed in the space industry of the future. Together, we will create value for our students, the local and global space sector, and society as a whole.



# INVESTMENT IN EXCELLENCE

Become a partner in the Division of Physical Sciences' pioneering efforts. UCLA seeks major philanthropic investment for the UCLA SPACE Institute through the following naming opportunities, allowing donors to align their name with world-class space research and technology at one of the most respected universities in the world.

**Infrastructure: Construction of a new building for the Institute (capital project): \$50M**

**Leadership: Endowed directorship (administrative chair): \$5M**

**Expertise: 5 Endowed faculty (research chairs): \$2M each**

**Education: 10 Endowed graduate fellowships: \$350K each**

**Community: Endowments for education, communication and public programs: \$100K+**

In addition to endowments, **seed funding through a current-use gift of \$1.2M** will help us take concrete action to build out infrastructure, leadership and marketing to promote the UCLA SPACE Institute. Become a leader in supporting faculty with the ability to lead with innovative ideas, train students and young researchers, and identify and seize novel opportunities at this exciting time.

# PARTNERING WITH INDUSTRY LEADERS

UCLA is well positioned to compete with funding proposals and collaborations on instrumentation, satellites, and science/theory/modeling, and further expand upon these areas of established strength. By investing in the UCLA SPACE Institute, corporations and other industry leaders will gain access to renowned faculty and researchers with the expertise to lead in scientific innovation, develop visionary concepts for large missions, and help partners answer their most pressing science problems. Corporate partners will also be in a strong position to recruit top talent and diversify their ranks through increased access to graduate students from one of the top divisions of physical sciences in the world.

To learn more about supporting an exciting new era of space science and technology at the nation's #1-ranked public university as an individual or corporate partner, please contact **Brooke Sanders** at [bsanders@support.ucla.edu](mailto:bsanders@support.ucla.edu) or by phone at **(310) 903-6521**.



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