



# NEXT-GENERATION AI AND HIGH PERFORMANCE COMPUTING LEAD TO NEW POSSIBILITIES AT NASA

## HPE builds NASA new supercomputer to support future human mission to moon

- New supercomputer, called Aitken, will run complex simulations for future entry, descent, and landing (EDL) on the moon
- Aitken is highly energy efficient, residing in NASA Ames Research Center's new modular supercomputing facility, that will replace the need for a cooling tower and millions of gallons of water

[Read the press release.](#)

## HPE delivers first above-the-cloud supercomputing services for astronauts to advance space exploration

- Spaceborne Computer opens up first in-space supercomputing capabilities after one-year mission on the International Space Station (ISS)
- Astronauts aboard the ISS can now run data analyses for space research without assistance from Earth
- Latest milestone for Spaceborne Computer lays groundwork to perform compute-intensive experiments without aid from Earth, which is necessary for expanded space travel such as missions to Mars

[Read the press release.](#)

## ONE UNIFIED MISSION

Science is about service—about a commitment to expanding human knowledge and driving discovery that fosters innovation, technology development, and economic progress for our nation.

This commitment, coupled with unique, world-class capabilities, is what makes the relationship that Hewlett Packard Enterprise (HPE) has with government agencies like NASA an indispensable pillar of America's leadership in science and technology. NASA centers are a national treasure that enables our nation's competitiveness in many scientific areas. HPE and Hewlett Packard Labs are committed to furthering space exploration, space technology, earth and space science, and aeronautics research.

## THE ROLE HPE IS PLAYING IN NASA INNOVATION

- Leveraging decades of successful collaborations between HPE and government agencies along with existing IT and expertise to maximize mission accomplishment, reduce costs all while delivering secure solutions
- Identifying and fostering new and emerging technologies to maximize mission accomplishment
- Engaging in partnerships that drive innovation in high performance computing (HPC), AI, machine learning (ML), and emerging technologies
- Helping to improve US competitiveness and substantially improve the competitiveness of our innovation and time to market to ensure positive outcomes for government programs
- Delivering high-performance exascale supercomputing systems
- Advancing scientific discovery with HPC in combination with applied AI (structural analysis, climate science, securing AI and IoT solutions, scientific research)

**“HPE has a longstanding collaboration with NASA Ames, and together, we continue to build innovative HPC technologies to fuel space and science discovery that increase overall efficiency and reduce costs.”**

—Bill Mannel, Vice President and General Manager, HPC and AI, HPE

## HPE AND NASA: HELPING TO SOLVE TOP CHALLENGES TOGETHER

Together with HPE, NASA can leverage highly accurate prediction models powered by next generation, exascale HPC systems to help solve our world's toughest challenges while enabling our nation to enhance our competitive position in the global marketplace. New Edge to sensor technologies powered by supercomputing techniques are also advancing programs like Artemis and moon-to-Mars manned craft exploration. New faster, more accurate and more granular data processing capabilities help to lower program costs and provide higher quality and more timely solutions as we work collectively towards enhancing our knowledge, education, innovation, economic vitality and stewardship of Earth.

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