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Redwire BioFabrication Facility Successfully Prints First Human Knee Meniscus on ISS, Paving the Way for Advanced In-Space Bioprinting Capabilities to Benefit Human Health

JACKSONVILLE, Fla.--(BUSINESS WIRE)-- Redwire Corporation (NYSE: RDW), a leader in space infrastructure for the next generation space economy, announced today that it has successfully 3D bioprinted the first human knee meniscus on orbit using its upgraded 3D BioFabrication Facility (BFF) on the International Space Station (ISS). This milestone opens the door to improved treatments for meniscal injuries, one of the most common injuries for U.S. Service Members.

This press release features multimedia. View the full release here:
<https://www.businesswire.com/news/home/20230907832309/en/>



Redwire's 3D BioFabrication Facility successfully 3D printed the first human knee meniscus on the International Space Station, paving the way for advanced in-space bioprinting capabilities to benefit human health. (Credit: Redwire)

bioprinting at scale.”

The print returned to Earth onboard the SpaceX Crew-6 Mission for analysis following successful print operations in July. Before returning to Earth, the print was cultured for 14

“This is a groundbreaking milestone with significant implications for human health,” said Redwire Executive Vice President John Vellinger. “Demonstrating the ability to successfully print complex tissue such as this meniscus is a major leap forward toward the development of a repeatable microgravity manufacturing process for reliable

days on the ISS in Redwire's Advanced Space Experiment Processor (ADSEP). The print was conducted as part of the BFF-Meniscus-2 Investigation with the Uniformed Services University of the Health Sciences Center for Biotechnology (4D Bio³), a biomedical research center that explores and adapts promising biotechnologies for warfighter benefit. The investigation was conducted by NASA astronauts Frank Rubio, Warren "Woody" Hoburg, and Stephen Bowen, and UAE astronaut Sultan Al Neyadi.

BFF is part of Redwire's growing portfolio of technologies and innovative on-orbit capabilities enabling human spaceflight missions and commercial microgravity research and development in low-Earth orbit (LEO). Redwire has developed 20 research facilities for the ISS with 10 currently operating on station to deliver world-leading research. In July, Redwire announced plans to open a 30,000 square foot, state-of-the-art microgravity payload development facility with a mission operations center at the Novaparke Innovation & Technology Campus in Floyd County, Indiana, as the company looks to increase production of critical technologies enabling human spaceflight missions and commercial microgravity research and development in LEO.

On the upcoming SpaceX CRS-29 resupply mission to the ISS in November, Redwire will be launching microgravity research payloads focused on pharmaceutical drug development and regenerative medicine, including an experiment in bioprinting cardiac tissue.

About Redwire

Redwire Corporation (NYSE: RDW) is a global leader in mission critical space solutions and high reliability components for the next generation space economy, with valuable intellectual property for solar power generation, in-space 3D printing and manufacturing, avionics, critical components, sensors, digital engineering and space-based biotechnology. It combines decades of flight heritage with an agile and innovative culture. The company's "Heritage plus Innovation" strategy enables it to combine proven performance with new, innovative capabilities to provide its customers with the building blocks for the present and future of space infrastructure. For more information, please visit redwirespace.com.

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