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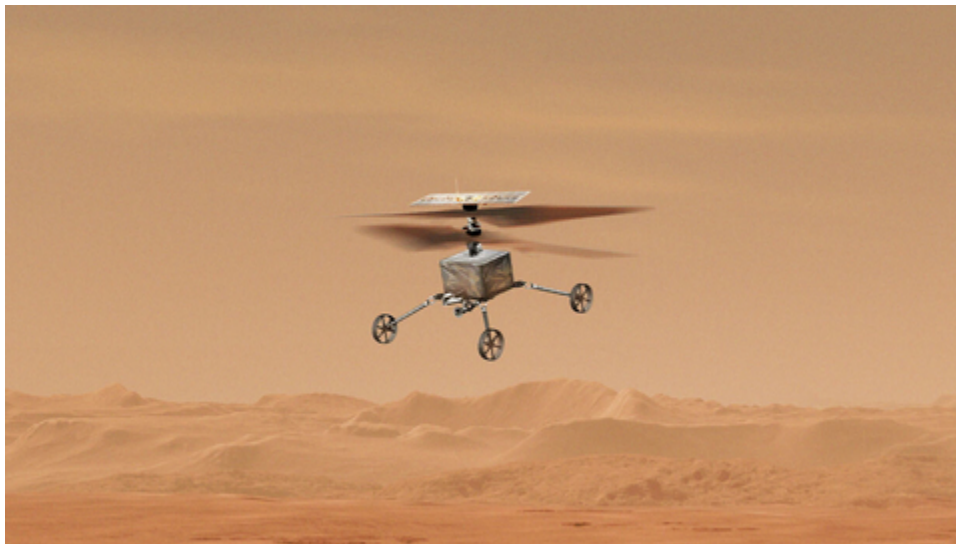
## AeroVironment Awarded \$10 Million Contract by NASA/JPL to Co-Design and Develop Two Helicopters for Mars Sample Return Mission

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*The success of Ingenuity Mars helicopter, co-designed and co-developed by AeroVironment and NASA/JPL, lays the foundation for the development of the Sample Recovery Helicopters*

ARLINGTON, Va.--(BUSINESS WIRE)--May 2, 2023-- [AeroVironment, Inc.](https://www.businesswire.com/news/home/20230502005539/en/) (NASDAQ: AVAV) has been awarded a \$10 million contract by NASA's Jet Propulsion Laboratory (JPL) to co-design and co-develop conceptual designs and engineering development units of [Mars Sample Recovery Helicopter](#) flight systems. Future efforts could include detailed design, build, and test of qualification and flight hardware. The helicopters build upon the Ingenuity Mars Helicopter design heritage and feature upgraded robotics to supplement aerial mobility.

This press release features multimedia. View the full release here: <https://www.businesswire.com/news/home/20230502005539/en/>



AeroVironment engineers from the MacCready Works team previously worked with NASA JPL to co-design and develop the [Ingenuity Mars Helicopter](#), which has completed 52 successful flights to date on Mars and survived 781 sols on the surface, far outperforming its design objectives.

"Accomplishing the impossible has been AeroVironment's mission for more than 50 years and we are excited to be working with the NASA JPL team again to conquer the next challenge," said Scott Newbern, AeroVironment's vice president and chief technology officer. "Ingenuity's flights on Mars are a giant leap for robotic technology. Now we're advancing this science further by helping to build helicopters that not only will continue flight on Mars, but also will include apparatus to collect samples to bring back to Earth for this historic mission."

Early concept for the Sample Recovery Helicopter based on Ingenuity. (Credit: NASA/ESA/JPL-Caltech)

The two planned Sample Recovery Helicopters would be a secondary method of sample retrieval for the NASA/ESA Mars Sample Return Campaign. NASA's Perseverance rover, which has already

been collecting a diverse set of scientifically selected samples for potential safe return to Earth, is currently planned as the primary method of delivering samples to the [Sample Retrieval Lander](#).

The Sample Recovery Helicopters would expand on Ingenuity's design, adding wheels and gripping capabilities, to provide a secondary method to pick up cached sample tubes left on the surface by Perseverance and transport them to the Sample Retrieval Lander. Once the sample cache is launched off the red planet, another spacecraft would capture it in Mars orbit, and then bring it back to Earth safely and securely in the early to mid-2030s. After the samples are on Earth, scientists around the world would examine them using sophisticated instruments too large and complex to send to Mars. The samples would remain available for future generations to study with increasingly advanced technologies. Scientists believe the samples could shed light on whether life has ever existed on Mars.

### More About Ingenuity

The Ingenuity Mars Helicopter was built by JPL, which also manages the project for NASA Headquarters. It is supported by NASA's Science Mission Directorate. NASA's Ames Research Center in California's Silicon Valley and NASA's Langley Research Center in Hampton, Virginia, provided significant flight performance analysis and technical assistance during Ingenuity's development. AeroVironment, Inc. co-developed, co-designed, and built the airframe and major subsystems.

### ABOUT AEROVIRONMENT, INC.

AeroVironment (NASDAQ: AVAV) provides technology solutions at the intersection of robotics, sensors, software analytics and connectivity that deliver more actionable intelligence so you can proceed with certainty. Headquartered in Virginia, AeroVironment is a global leader in intelligent, multi-domain robotic systems and serves defense, government and commercial customers. For more information, visit [www.avinc.com](http://www.avinc.com).

### SAFE HARBOR STATEMENT

Certain statements in this press release may constitute "forward-looking statements" as that term is defined in the Private Securities Litigation Reform Act of 1995. These statements are made on the basis of current expectations, forecasts and assumptions that involve risks and uncertainties, including, but not limited to, economic, competitive, governmental and technological factors outside of our control, that may cause our business, strategy or actual results to differ materially from those expressed or implied. Factors that could cause actual results to differ materially from the forward-looking statements include, but are not limited to, our ability to perform under existing contracts and obtain additional contracts; changes in the regulatory environment; the activities of competitors; failure of the markets in which we operate to grow; failure to expand into new markets; failure to develop new products or integrate new technology with current products; and general economic and business conditions in the United States and elsewhere in the world. For a further list and description of such risks and uncertainties, see the reports we file with the Securities and Exchange Commission. We do not intend, and undertake no obligation, to update any forward-looking statements, whether as a result of new information, future events or otherwise.

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