

**Dr. Mark J. Lewis**

*Director of Defense Research and Engineering for Modernization*





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Dr. Mark J. Lewis is the Director of Defense Research and Engineering for Modernization. In this capacity, Dr. Lewis oversees investment and capability analysis of the Pentagon's modernization priorities outlined in the National Defense Strategy. He has oversight of the nine assistant directors assigned to those modernization portfolios, working in collaboration with the two technical directors, and their roadmaps - the comprehensive strategies to manage, provide oversight and guide choices for each modernization priority area. These modernization priorities include 5G; Artificial Intelligence and Machine Learning; Autonomy; Biotechnology; Cyber; Directed Energy; Fully Networked Command, Control, and Communications; Hypersonics; Microelectronics; Quantum Science; and Space.

Prior to this role, Dr. Lewis was the Director of the IDA Science and Technology Policy Institute where he lead a team of researchers providing analysis of science and technology issues for the Office of Science and Technology Policy in the White House, the National Science Foundation, the National Institutes of Health, NASA and

other federal science agencies. Dr. Lewis served as the Willis Young

other federal science agencies. Dr. Lewis served as the Willis Young, Jr. Professor and Chair of the Department of Aerospace Engineering at the University of Maryland, President of the American Institute of Aeronautics and Astronautics, and was the founder of both the Center for Hypersonics Education and Research and the NASA-Air Force Constellation University Institutes Project. He has also served on various advisory boards for NASA, the Defense Department, and the Air Force, including two terms on the Air Force Scientific Advisory Board.

From 2004 to 2008, Dr. Lewis served as the Chief Scientist of the U.S. Air Force. During his tenure, Dr. Lewis expanded basic research support, focused efforts on launch vehicle technologies, established major international programs and contributed to the Presidential National Aeronautics Executive Order.

Dr. Lewis attended the Massachusetts Institute of Technology where he received a Bachelor of Science degree in aeronautics and astronautics, Bachelor of Science degree in earth and planetary science (1984), and both a Master of Science degree (1985) and a Doctor of Science degree (1988) in aeronautics and astronautics.

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