

ONR ON THE F-35B/C LIGHTNING II

For 80 years, the Office of Naval Research (ONR) has been a leader in advancing American naval warfighter readiness and dominance—leading the development of innovative science and technology for the Navy and Marine Corps. Some of the most important naval platforms and capabilities began as ONR-sponsored research.

ONR's contributions are essential to the advancement and delivery of combat systems, sensors, weapons, materials, uncrewed platforms and numerous other technologies that provide critical capability for the Fleet and Force.

The F-35 Lightning II is a fifth-generation, multirole fighter that significantly advances the air combat capabilities of the Marine Corps and Navy. ONR has made major contributions to the development and improvement of both the Marine and Navy version of this aircraft, including:

Upgrades to its air-to-air weaponry

Enhancements to pilot survivability

Improved affordability for the manufacture of the canopy, targeting system, and other assemblies

Advances in simulation and testing of complex components.

CANOPY |

SURVIVABILITY |

TARGETING |

ARMAMENT |

MATERIALS |

ADVANCED
MANUFACTURING

STOVL SYSTEM
UPGRADES

SIMULATION
AND TESTING

