

# MITRE NATIONAL RANGE

Located in Orange County, VA, the MITRE National Range prioritizes operational security with 16 acres of dedicated airspace, hundreds of acres of accessible land, and thousands of acres of aerial access, all free from public interference. The MITRE National Range is a proving ground to test and evaluate robotics, uncrewed aircraft systems, communications systems, and more.

For MITRE partners, the Range offers an opportunity for academia, government, and industry to collaborate on advancing mission priorities through prototyping and experimentation. The Range also provides an ideal location to learn, develop, and test capabilities to enhance homeland and national security measures that serve the public interest.

## Enabling Uninterrupted Training and Testing

The MITRE National Range provides users the opportunity to test, evaluate, and prototype drone technologies within a controlled environment. The Range allows users to access:

- A powered operations center with private offices, meeting space, work areas, and storage
- 5G connectivity, National Institute of Standards and Technology (NIST) Uncrewed Aircraft Systems (UAS/Drone) course training, internet, powered outdoor charging station, and MITRE team expertise
- Space available for uncrewed air systems, C-UAS operations, ground systems, tactical training, antennas and network testing, communications, and more



*Aerial view of National Range and surrounding area*

## Range Availability:

- First Responder Community
- Federal, State, and Local Governments
- Academia
- MITRE Industry Partners
- MITRE Teams

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## Leverage MITRE's World-Class Capabilities and Subject Matter Experts to Connect

In addition to the physical space, MITRE's deep expertise, including researchers, capabilities, and solutions, can be made available and accessible to users of the MITRE National Range. Our MITRE team welcomes preliminary discussions to make the most of your visit to the Range. MITRE's expertise can help you to:

- Access standardized stress testing protocols, supporting staff, and testing equipment, for both manufacturers and buyers seeking independent validation.
- Test against advanced infrastructure including 5G communication systems, capture telemetry for data collection of key drone metrics, and integrate with Command and Control systems (e.g., TAK) and sensor fusion/exploitation capabilities.
- Develop realistic training scenarios and simulations encompassing diverse emergency situations like search and rescue, hostage negotiation, and disaster response, in collaboration with MITRE experts.
- Perform shock, vibration, and mechanical load testing augmented with temperature, humidity, and altitude chambers.
- Host test and evaluation events or demonstrations for MITRE or company partners and stakeholders.



Aerial view of MITRE National Range

*"I understand how critical—and how necessary—these technologies are for the future defense of our homeland, our communities, and our people."*

– U.S. Representative Abigail Spanberger at the MITRE National Drone Range opening

Contact Craig Ulsh ([Culsh@MITRE.org](mailto:Culsh@MITRE.org)) and Shay Major ([Smajor@MITRE.org](mailto:Smajor@MITRE.org)) for questions and reservations.

*MITRE's mission-driven teams are dedicated to solving problems for a safer world. Through our public-private partnerships and federally funded R&D centers, we work across government and in partnership with industry to tackle challenges to the safety, stability, and well-being of our nation.*

**MITRE** | SOLVING PROBLEMS  
FOR A SAFER WORLD®