

Fog Chamber: Evaluating Degraded Visual Environments



Sandia National Laboratories' state-of-the-art fog user facility can provide repeatable fog environments to support testing needs 24/7, year-round.

APPLICATION AREAS

PROBLEM SOLVING ACROSS INDUSTRY



Aviation



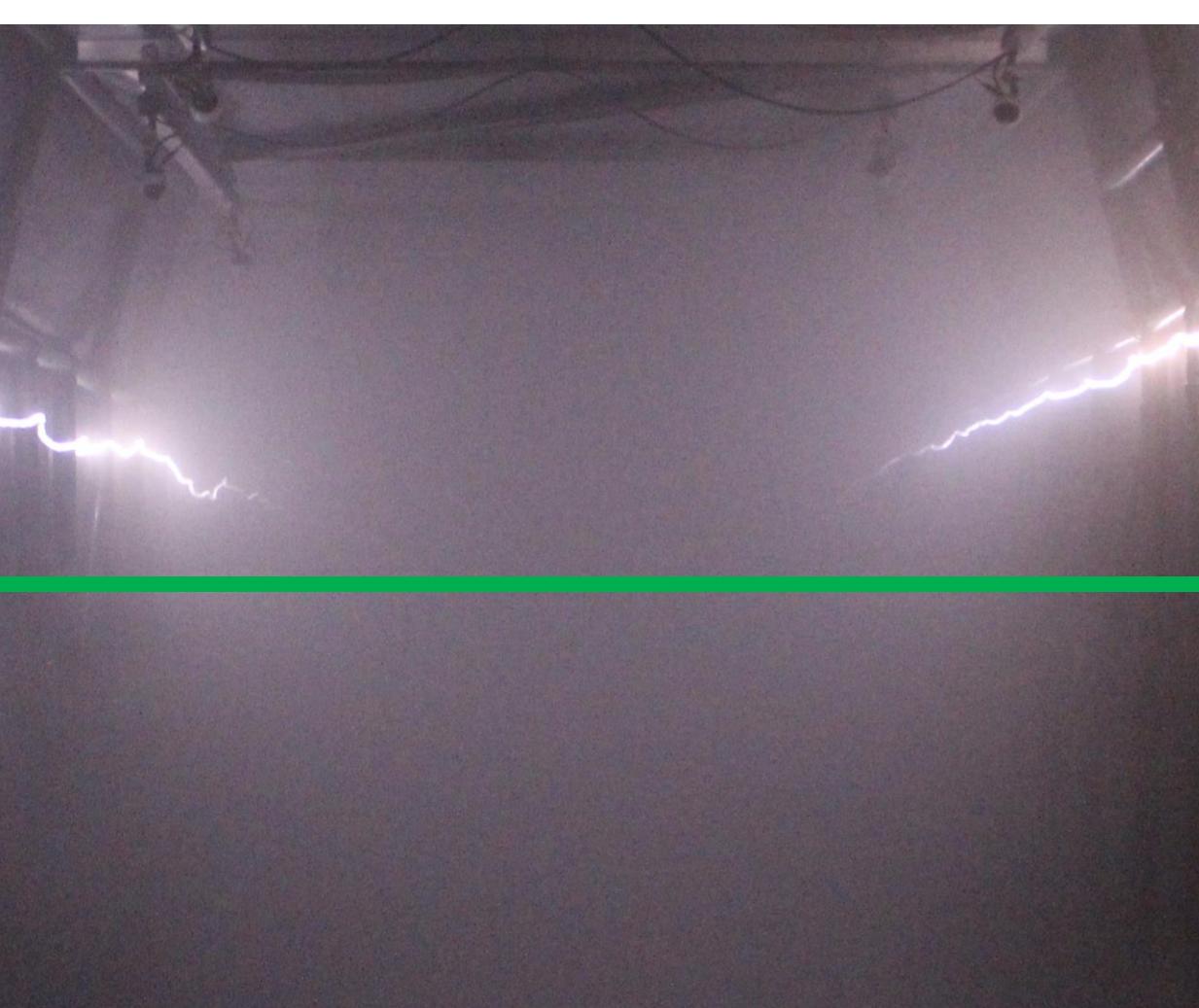
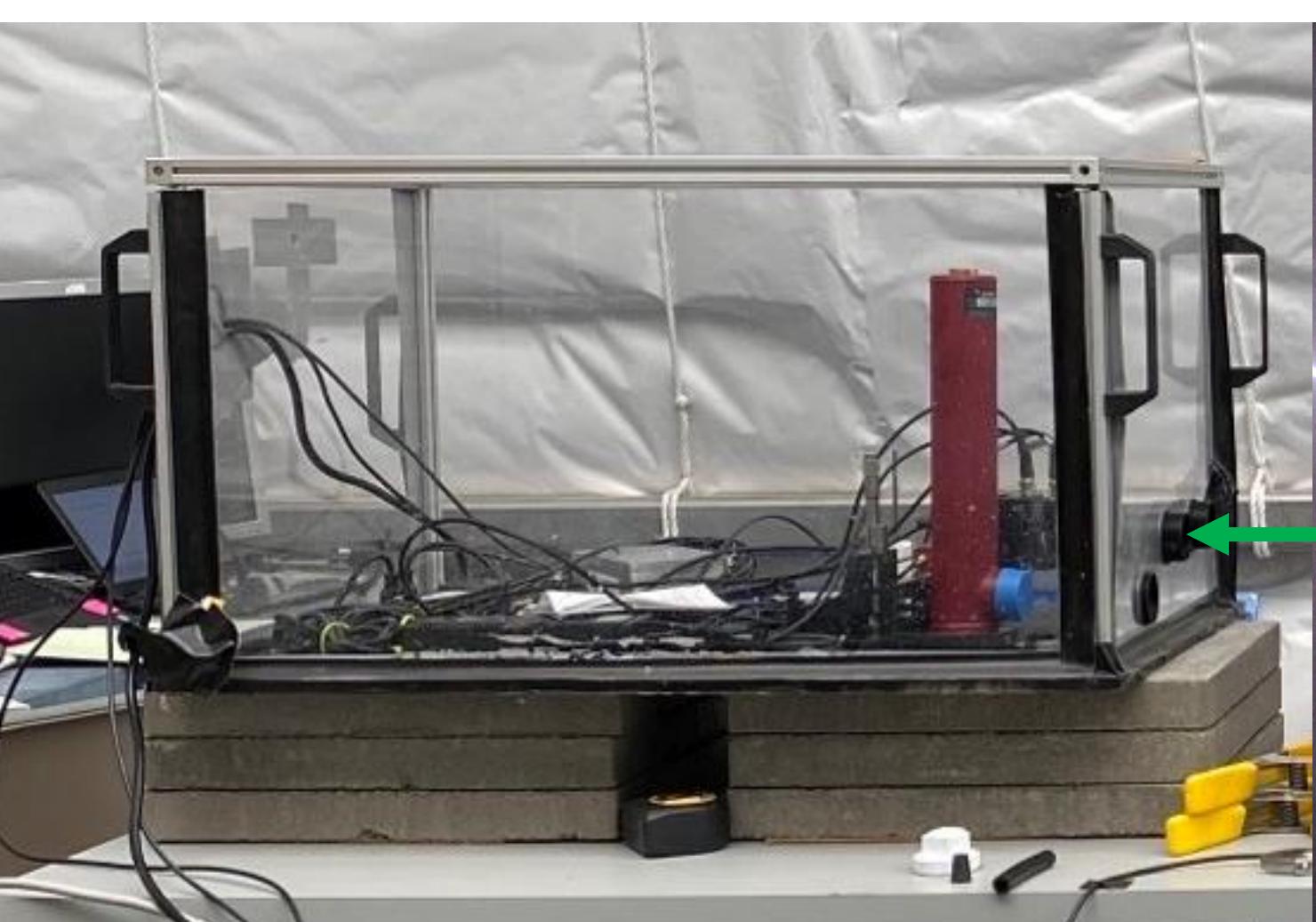
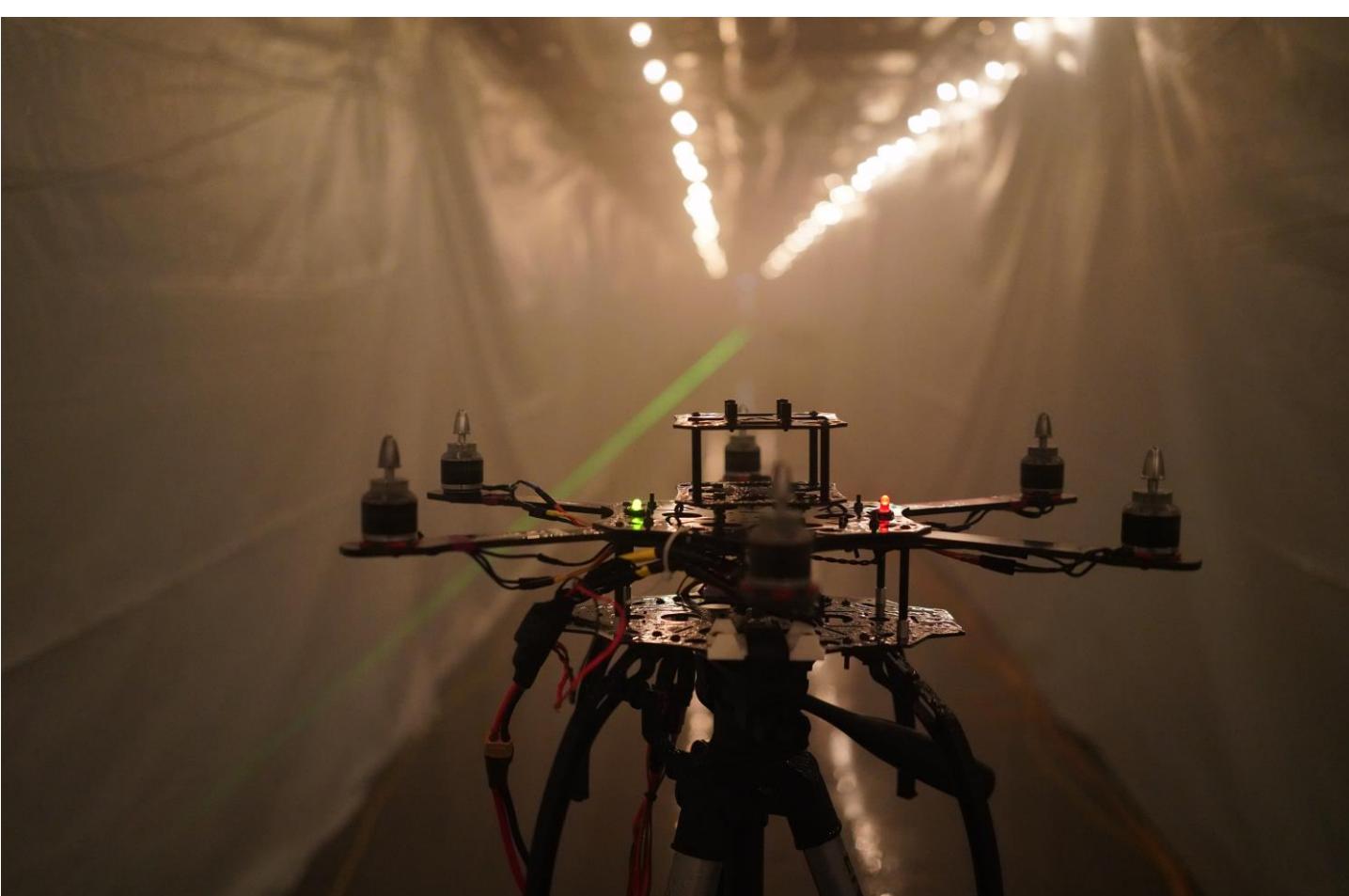
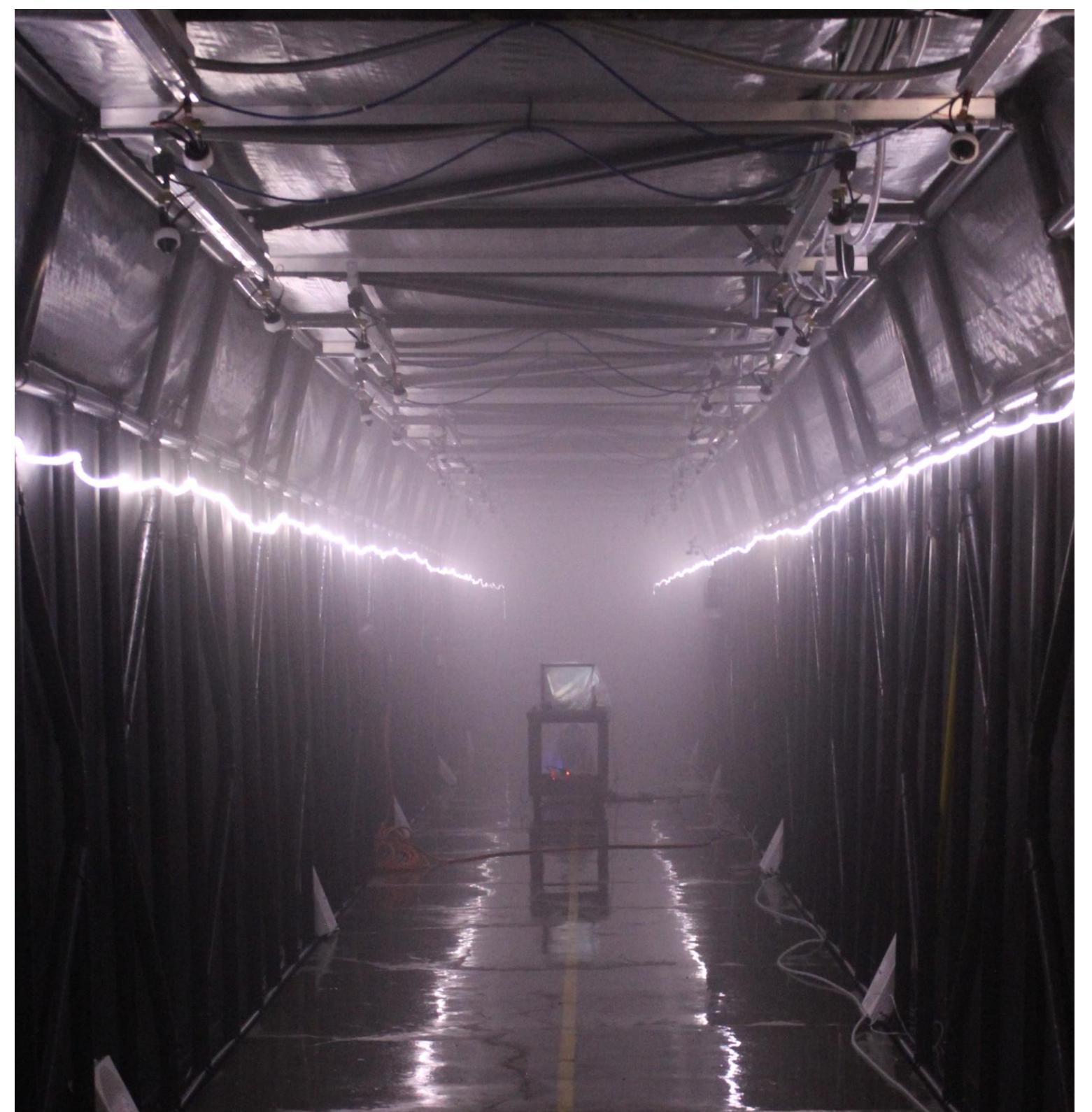
Satellite Monitoring



Security



Autonomous Vehicles



Malvern Spraytec, used to size fog particles.

Custom multiband transmissometer provides transmission information through the fog across visible (532 nm), SWIR (1550 nm), and LWIR (9.68 μ m).

UNIQUE FOG FACILITY CAPABILITIES

A LIVING LAB FOR OPTICS TESTING IN FOG

10' x 10' x 180' facility with 1% grade

64 spray nozzles with three selectable sections

Stable indoor environment with temperature control

Multiple illumination configurations

System performance characterization (e.g. resolution testing)

Equipment protection

Class IV Laser Lab

Time correlated real-time particle and transmissions metrology

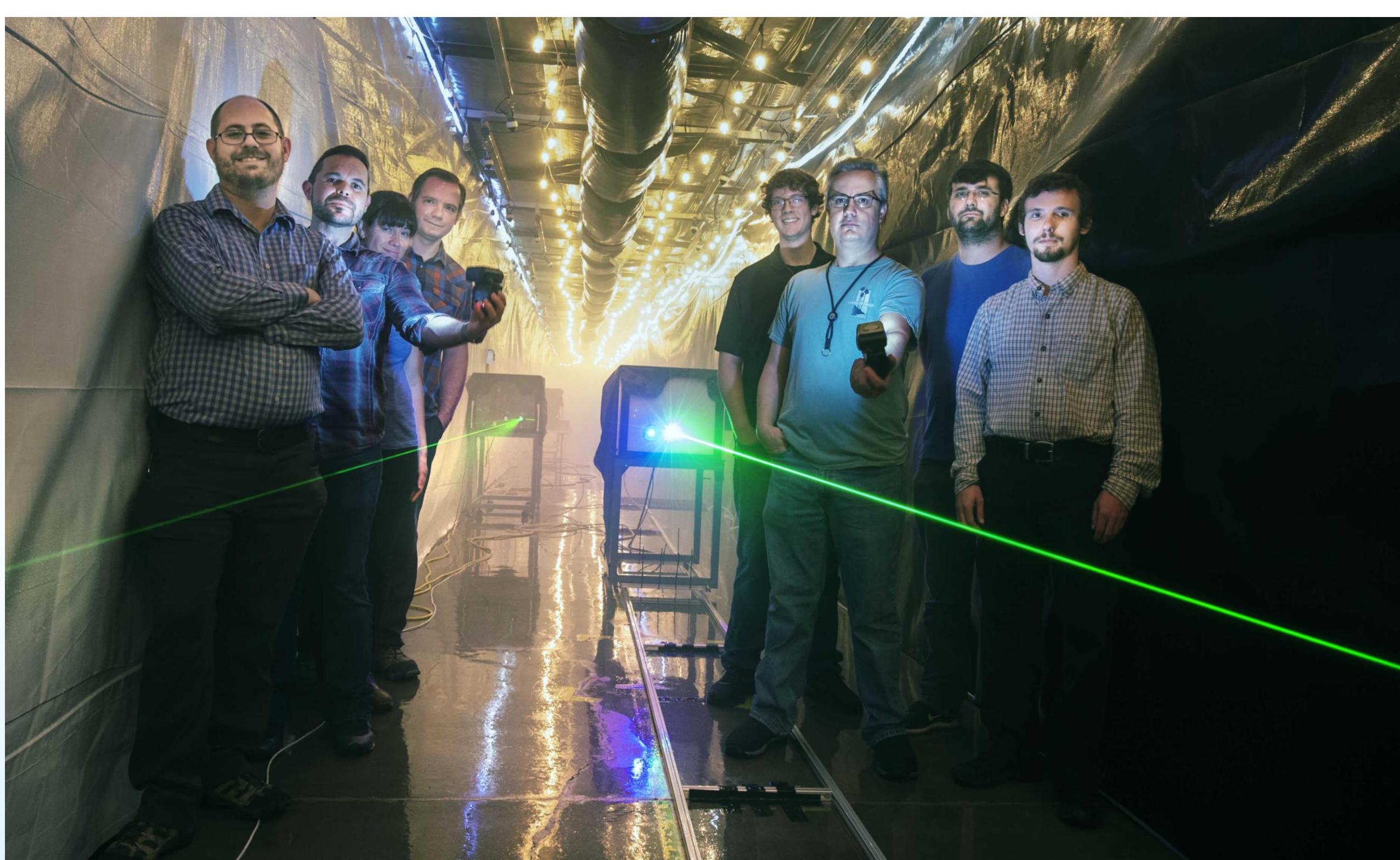
PARTNERSHIP OPPORTUNITIES

LEVERAGE SANDIA'S EXPERTISE AND FACILITIES TO SOLVE TECHNICAL CHALLENGES

WORK WITH US

A Strategic Partnership Projects (SPP)

Agreement facilitates the use of Sandia's unique resources by private industry, government, academia, and more to validate or improve technologies.



For more details and partnership opportunities, please contact fog@sandia.gov.