Boeing Collaborative Systems Laboratory (CSL)

R&D Experimentation Facility for Drones / Ground Robots

Supports Safe, Flexible, and Affordable Experimentation and Integration

Airborne Drone, Autonomously Following Ground Robot for Overwatch Imagery





CSL Virtual Reality Display (Boeing)

Haptic Feedback Arm Remote Operator Station (BluHaptics, University of Washington)



Ground Robot with Haptic Feedback Arm (BluHaptics, National Instruments, University of Washington)

Collaborative Systems Lab (Boeing)



Booth Map

Station 4 Mission Command and Control Center

(MathWorks)



Station 3 Drone-Carried On-Demand Wi-Fi Networks (University of North Texas)







Smartphone App for Emergency Response (MIT Media Lab)





Station 2





Station 5

Humanoid Robot for Emergency Response

(Worcester Polytechnic Institute)

Station 6 Teleoperated Robot for Emergency Response

(BluHaptics | National Instruments | University of Washington)

Station 1 Cyber-Physical Search and Rescue Dog

(North Carolina State University)

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BluHaptics | Boeing | MathWorks | MIT Media Lab | National Instruments | North Carolina State University University of North Texas | University of Washington | Worcester Polytechnic Institute

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