



CHEMICAL BIOLOGICAL RADIOLOGICAL NUCLEAR AND EXPLOSIVES (CBRNE) SYSTEMS SOFTWARE ENGINEERING FACILITY

LABORATORY INFORMATION FACT SHEET

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The Chemical Biological Systems Support Lab integrates sensors and networking technologies to detect, classify and report simulated chemical events.

TECHNOLOGY/FACILITY DESCRIPTION:

The facility will support the simulation and test of biological and chemical events and the generation of Nuclear Biological Chemical (NBC) reports that are automatically sent to higher command for dissemination to other units. The Lab is equipped for general purpose and related digital

communications analysis, troubleshooting and prototyping for multiple programs at the Joint Program Executive Office for Chemical and Biological Defense (JPEO CBD). The Lab supports initiatives related to the Joint Biological Point Detection System (JBPDs) in support of the Joint Program Manager Contamination Avoidance (JPM CA). It also supports the Joint Program Manager Information Systems (JPM IS) Joint Effects Model (JEM) and Joint Warning and Reporting Network (JWARN) programs used to produce automated CBRN hazard area plots. The Lab will also house the Software Support Environment Tools for Chemical Biological Protective Shelter (CBPS) in support of Joint Program Manager Protection (JPM-P).



EQUIPMENT AND EXPERTISE AVAILABLE:

- Joint Biological Point Detection System (JBPDs)
- Global Command and Control System - Army (GCCS-A)
- Sensors and Simulators
- Maintain System and Software Engineering Environments for Acquisition Support and Post Production Software Support
- Compile software source code delivered by contractor
- Verify build procedures and configuration control of source code
- Develop or modify source code, upload to target platforms, debug and test software
- Supplement and support Government Software Testing
- Reverse engineering and component integration
- Evaluate alternative design considerations
- Troubleshoot problem reports, identify the cause and develop a solution to correct the problem