



Chemical, Biological, Radiological and Nuclear Defense Information Analysis Center

CBRNIAC

The Chemical, Biological, Radiological and Nuclear Defense Information Analysis Center (CBRNIAC) is one of the US Department of Defense (DoD) IACs. CBRNIAC supports DoD, other federal agencies and their contractors, state and local governments, and emergency responders. CBRNIAC's Core Program provides information retrieval and analysis by professionals with expertise in the scientific, technical, and operational areas of Chemical, Biological, Radiological and Nuclear (CBRN) Defense and homeland security, while Technical Area Tasks (TATs) through our laboratories, test facilities, data centers, and knowledge-management solutions offer extended support.

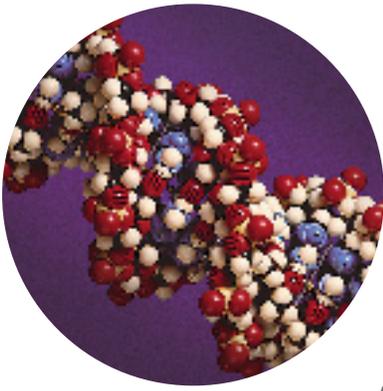
"The Joint Operating Environment forecasts that joint forces will not have the luxury of contemplating future warfare free of these significant operational challenges [nuclear warfare and operations in chemical, biological, radiological, and nuclear environments], but will have to develop the same level of expertise with respect to them that they have developed for conventional warfare."

Capstone Concept for Joint Operations Version 3.0
15 January 2009

The threat from CBRN weapons includes a complex variety of chemical weapons—nerve, blood, blister, choking agents, toxic industrial chemicals, and novel threat agents—and is complicated by the numerous potential means of delivering these weapons—bombs, spray devices, missiles, or novel delivery devices.

The threat from CBRN weapons pandemic includes biological weapons; viral, bacterial, rickettsial, and toxic agents; potentially new or genetically engineered agents; and emerging infectious diseases. It also includes radiological and nuclear weapons, including radiological dispersal devices or dirty bombs.

In addition, more than 20 nation states and several non-state organizations may currently have or may be pursuing CBRN weapons capabilities that could pose threats to US forces operating abroad or within the United States.



CBRNIAC is a one-stop source: for CBRN Defense and homeland security support, for comprehensive CBRN Defense information, and for Defense technical and operational solutions. CBRNIAC's scope includes the following:

- Analysis of Manufacturing Processes for Nuclear, Biological, and Chemical (NBC) Defense Systems
- Chemical & Physical Properties of CBD Materials
- Combat Effectiveness
- Counter-Proliferation
- Counter-Terrorism
- Defense Conversion & Dual-Use Technology Transfer
- Domestic Preparedness & Homeland Security
- Environmental Fate & Effects
- International Technology Proliferation & Arms Control
- Medical Effects & Treatment
- NBC Survivability
- Radiological and Nuclear Defense
- Smoke & Obscurants
- Toxic Industrial Chemicals & Toxic Industrial Materials
- Treaty Verification & Compliance
- Warning & Identification

CBRNIAC's Core Program acquires, generates, processes, analyzes, synthesizes, and disseminates CBRN Defense and homeland security information for scientific, technical, and operational applications; provides a robust current awareness program through

newsletters, briefings, website and conferences and provides a responsive and comprehensive inquiry and referral service to our users. CBRNIAC's repository contains more than 159,000 documents and more than 168,000 records.

CBRNIAC TATs provide a quick, convenient, and responsive contract vehicle for independently funded analytical and/or technical efforts. TATs provide access to technical expertise and facilities for CBRN Defense and for homeland security technical work. Example TAT areas are:

- Information Collection & Compilation
- Hardware Development
- Laboratory Studies & Surety Work
- Design & Development of Models, Simulations & Databases
- Technical Consulting
- Training & Exercises
- Conferences, Symposia & Working Groups
- Engineering Design, Prototyping & Low-Rate Production

CBRNIAC's Knowledge Management & Development (KM&D) Program collects, analyzes, synthesizes, and disseminates CBRN Defense and homeland security scientific, technical, and operational knowledge to meet specific requirements. Our expertise in developing databases, applications, and CBRN Defense and homeland security content enables us to provide specialized electronic formats, to analyze, extract and organize technical information, and to provide controlled electronic dissemination.

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