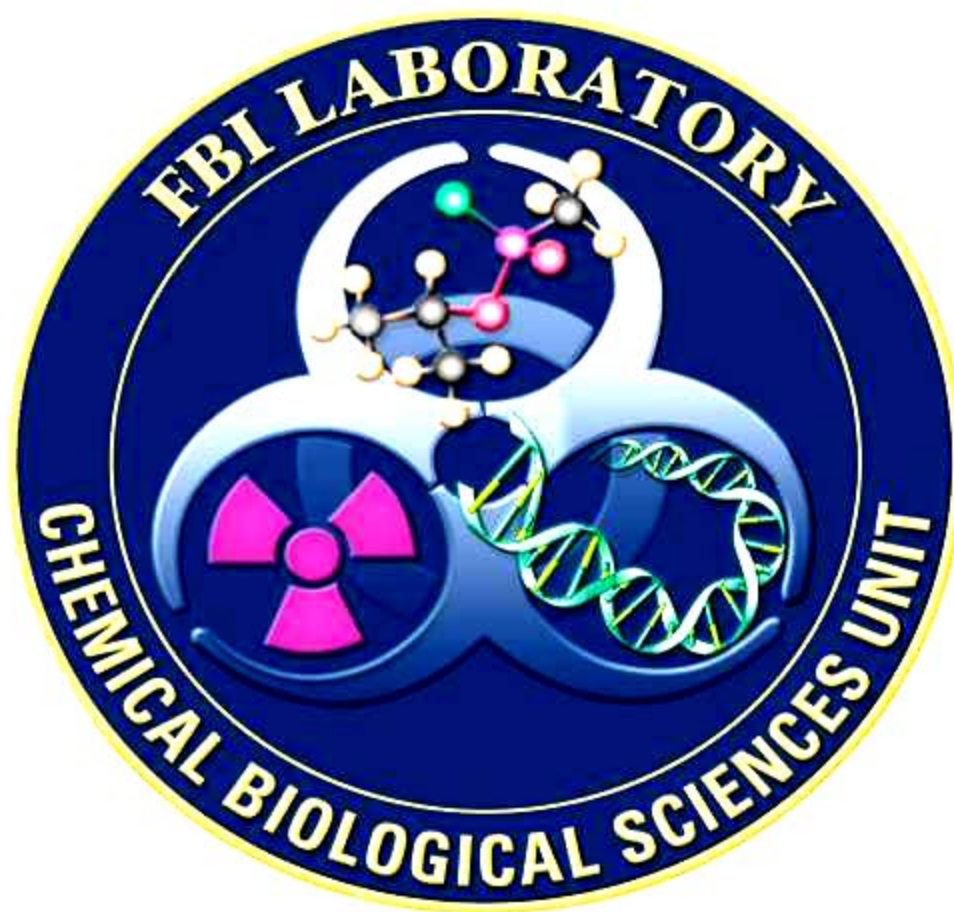




# Chemical Biological Sciences Unit (CBSU)

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Chemical B



# Mission

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To develop and maintain the FBI's ability to conduct and/or direct high quality forensic examinations of hazardous chemical, biological, and radiological-nuclear (CBRN) materials, and all related evidence.



# Mission Breakdown

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- Establish a supporting laboratory network that provides a wide range of expertise.
- Enhance the FBI Laboratory's ability to conduct forensic examinations of hazardous evidence.
- Develop and validate methods to analyze CBRN evidence.

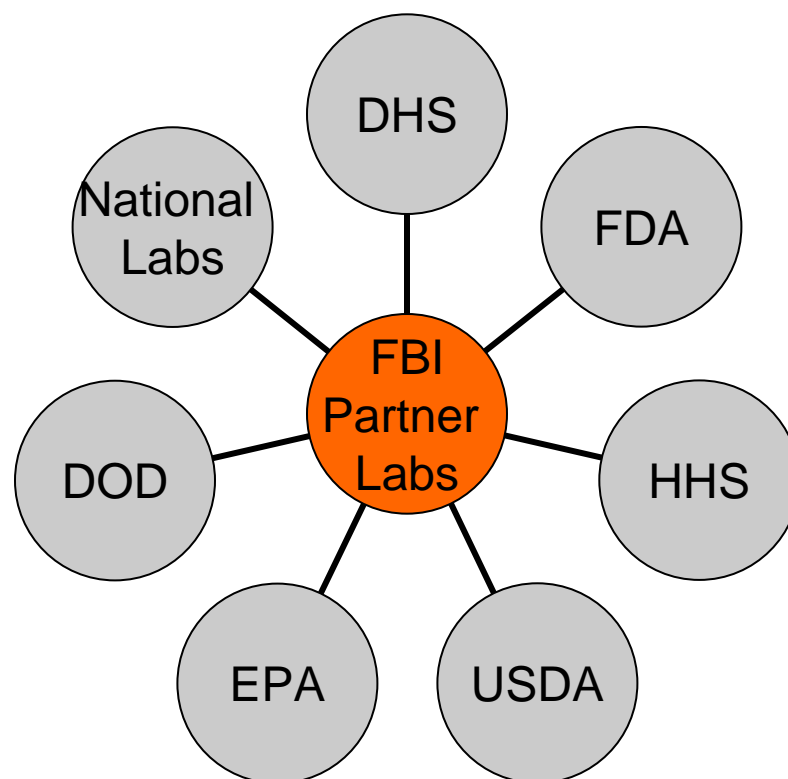


# Chemical Biological Sciences Unit

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## Success Through Partnerships

- Establish dedicated forensic CBRN facilities.
- “Hub and Spoke Model”.





## Partner Labs

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- **Examinations of CBRN are conducted at different FBI Partner Laboratories (PLs) which are designed to routinely handle hazardous material.**
  - Edgewood Chemical Biological Center (ECBC)
  - Lawrence Livermore National Laboratory (LLNL)
  - National BioForensics Analysis Center (NBFAC)
  - Savannah River National Laboratory (SRNL)
  - Centers For Disease Control and Prevention (CDC)



# National BioForensics Analysis Center (NBFAC)

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- **The NBFAC is the FBI’s “Hub” Laboratory for any suspected bio-terrorism agent.**
- **The NBFAC has dedicated forensic space used by the FBI to conduct traditional forensic examinations on hazardous evidence**





# FBI Laboratory

## Hazardous Evidence Analysis Teams (HEAT)

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- **Forensic Examiners from various FBI Laboratory disciplines, train to conduct examinations of hazardous evidence.**

- **Trace Evidence**
- **Latent Fingerprints**
- **Questioned Documents**
- **Firearm and Tool marks**
- **Special Photography**
- **Chemistry**
- **DNA I, II**
- **Explosives**
- **Structural Design and Engineering**
- **Evidence Control**



# Hazardous Evidence Process

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- Assessment
- Search and Collection
- Transport and Submission for Analysis
- Processing at Partner Labs
- Analysis and Reporting
- Adjudication





# Hazardous Evidence Process

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- HMRT/HMRU Process Crime Scene
  - Field assessments, evidence collections, possible first tier testing by LRN...(Documentation: Itemized lists and notes, FD-597, COC).
- HMRU/CBSU coordinate evidence transport to appropriate “Partner Labs” (Non-FBI).



# Hazardous Evidence Process

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- Request to CBSU from FBI Field Office for analysis of collected material
- Analytical lab (non-FBI) generates their Evidence Accession Log.
  - May be several partner laboratories involved, complex chains of custody.
- CBSU requests and approves analytical plans from the partner labs.
  - Triage analytical exams (HEAT examinations?)
- Partner Labs perform evidence analysis.
- Analysis reports are provided to CBSU.
- CBSU reviews and communicates reports to appropriate Field Office.
- CBSU coordinates evidence disposition upon completion of examination(s)