

FBI Laboratory R & D Solicitation

Trace Evidence Symposium

August 2007



Counterterrorism and Forensic Science Research Unit

- Spectroscopy
- Materials Analysis
- Statistical Methods
- Databases
- Toxicology
- Trace Volatiles
- Field Instrumentation
- Human Nuclear and mtDNA Analysis
- Microbial Forensics
- Forensic Anthropology
- Imaging

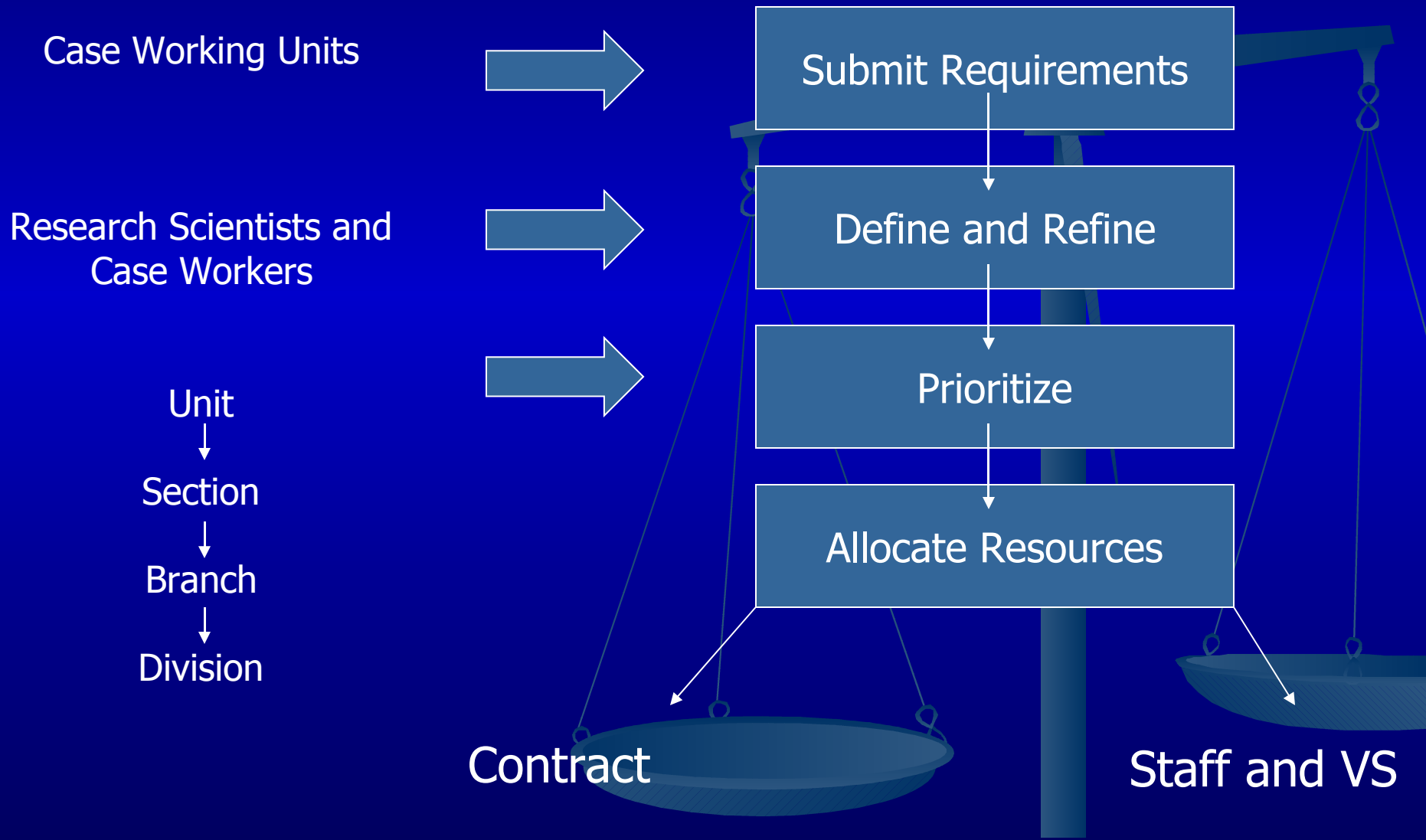


Counterterrorism and Forensic Science Research Unit

- Biologists
- Chemists
- Geologists
- Forensic Scientist
- IT Specialist
- Visiting Scientists (undergraduates, B.S., M.S., Ph.D.)
- Honors Interns
- Co-op students
- Contractors
- Support staff

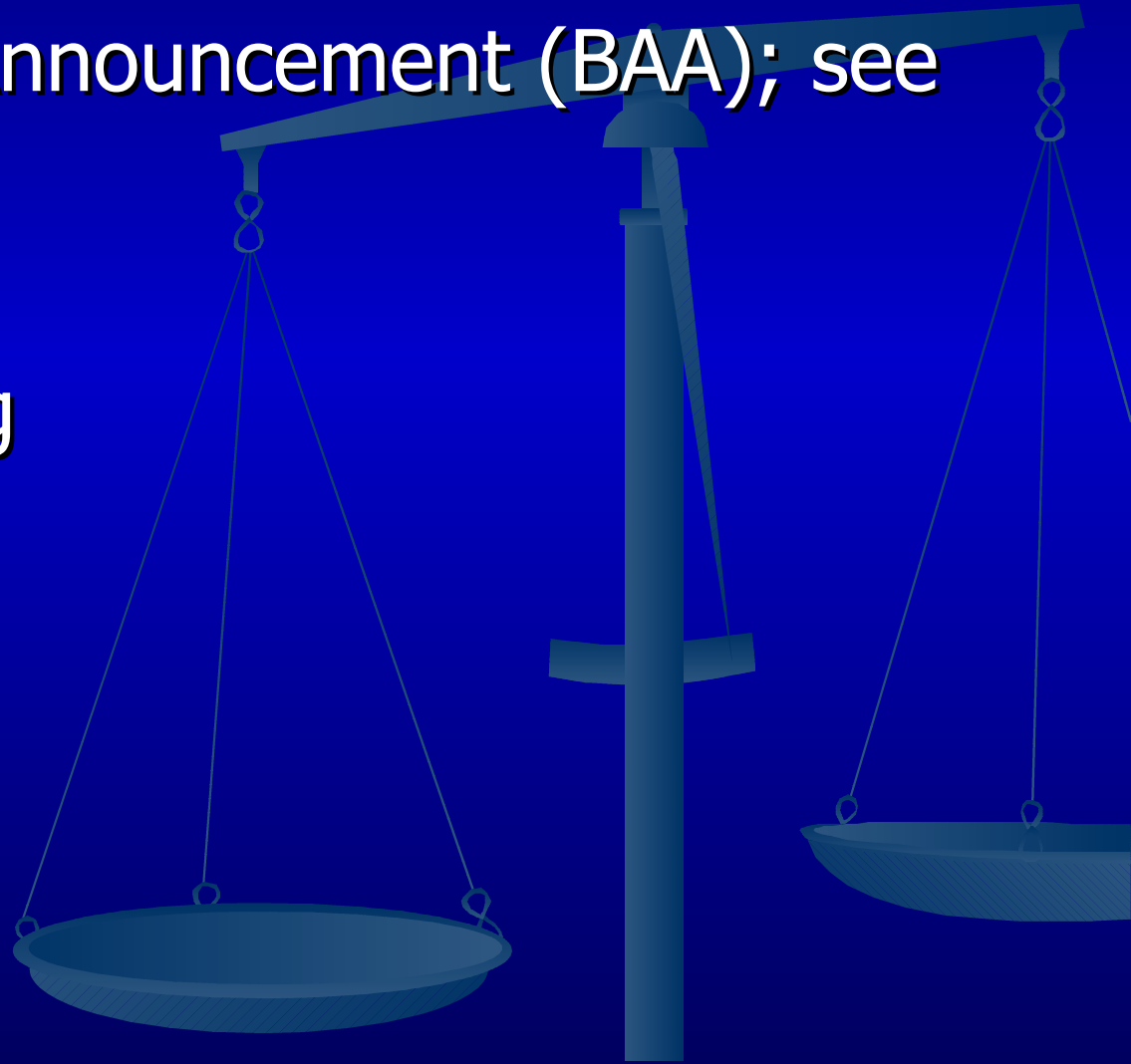


Defining R&D Requirements



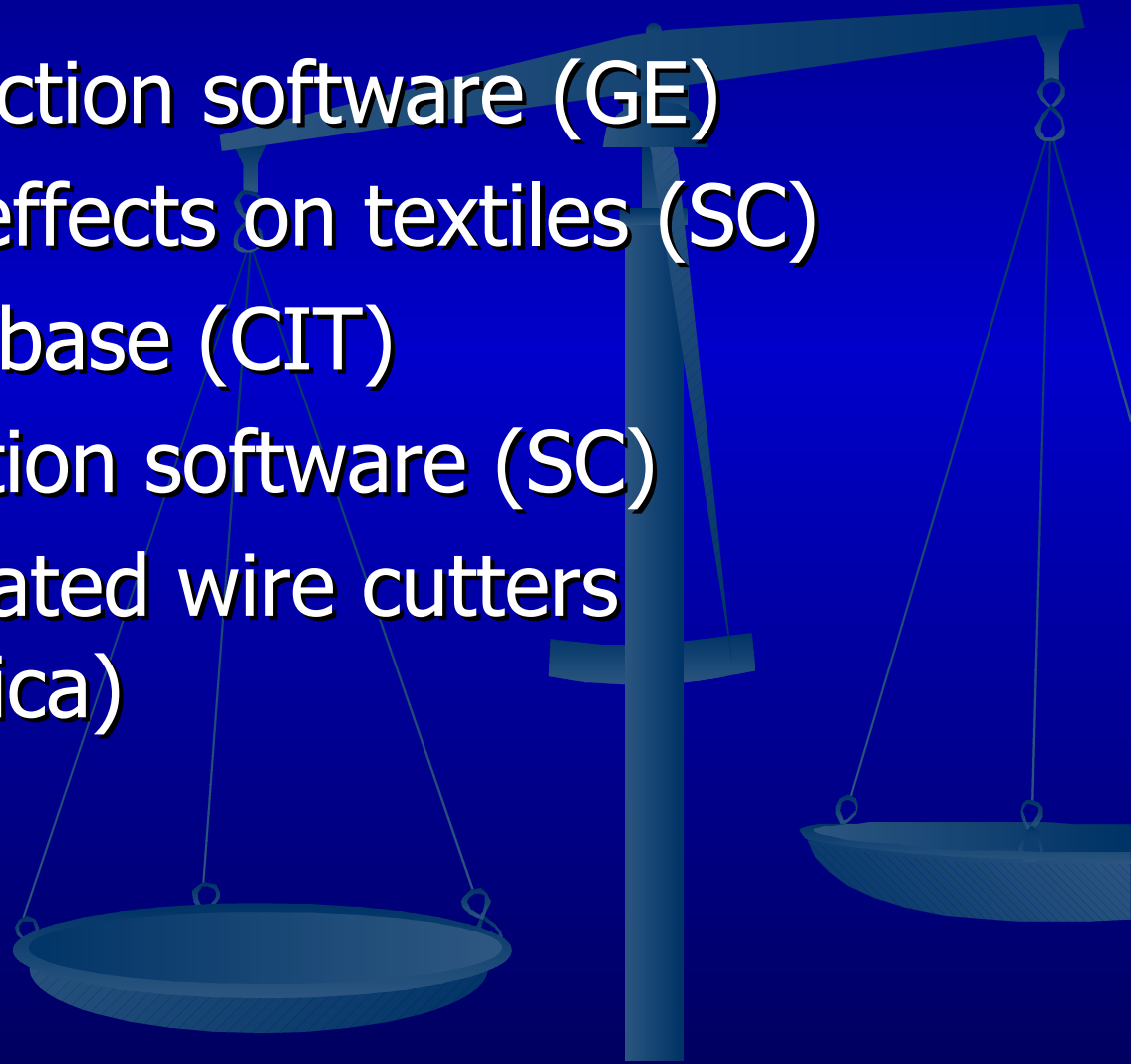
Contracts

- Broad Agency Announcement (BAA); see FEDBIZOPS
- Two phases
- Kick-off meeting
- Monthly status
- Deliverables



Contracted Research

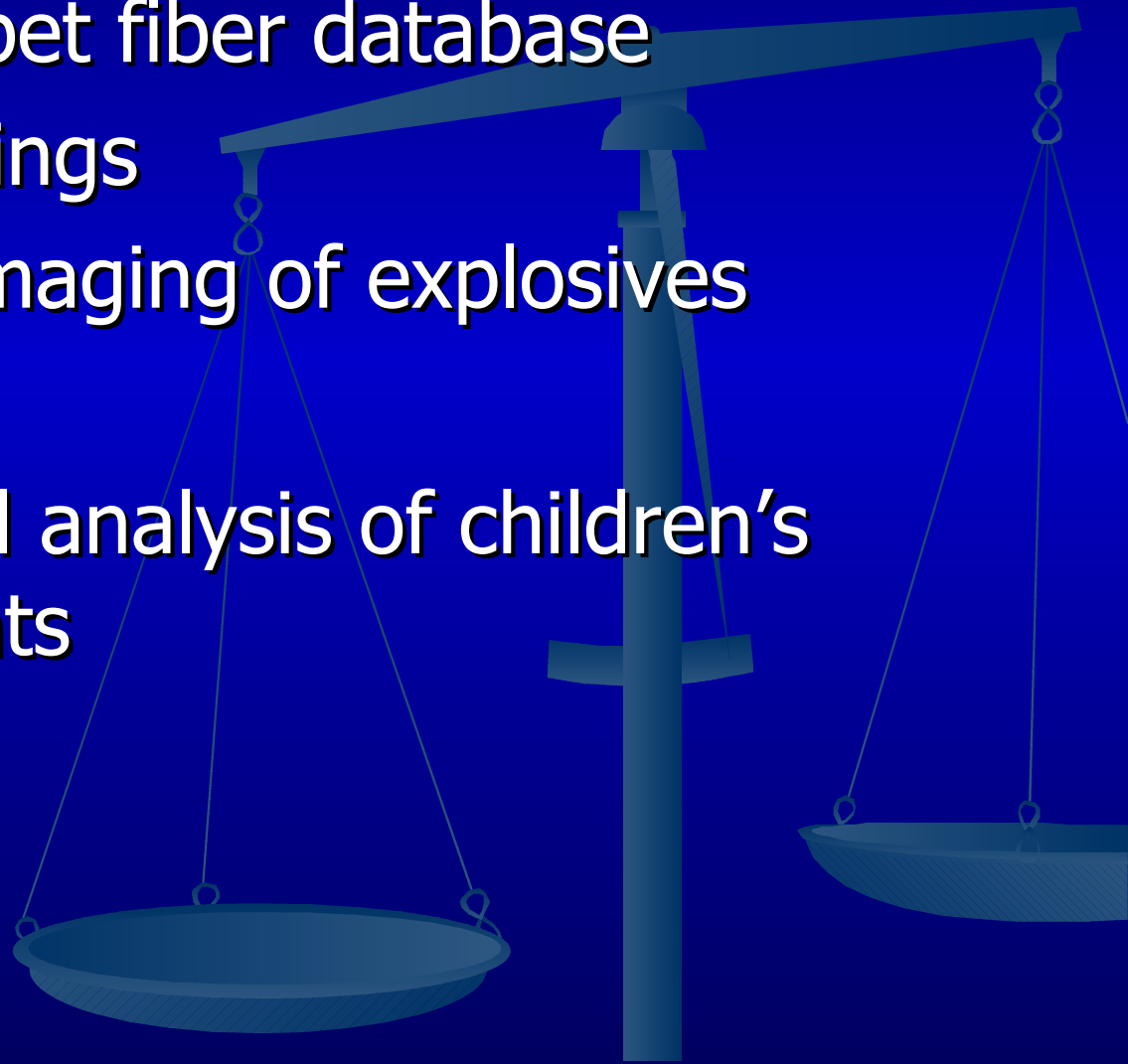
- Facial reconstruction software (GE)
- Environmental effects on textiles (SC)
- Plastic bag database (CIT)
- Pattern recognition software (SC)
- Shock-tube initiated wire cutters (Electromechanica)



Internal Research

Manuscripts in Preparation

- Automotive carpet fiber database
- Obliterated writings
- Hyperspectral imaging of explosives
- Hair mtDNA
- Spectrochemical analysis of children's latent fingerprints



Educational Opportunities

- ORISE Research Fellowship (undergrad, B.S., M.S., Ph.D.) www.ornl.gov
 - Honors Internship Program (rising college seniors) www.fbijobs.com
 - FBI CO-OP program (undergraduates)
 - Arrange research through university and individual research scientists at the CFSRU
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