

The Central Intelligence Agency's primary mission is to collect, evaluate, and disseminate foreign intelligence to assist the President and senior US Government policymakers in making decisions relating to national security.

To accomplish its mission, the CIA engages in a wide range of research and development for collection, analysis, and security purposes.

Technical areas of interest include:

Antennas

- Electronically Large, Physically Small
- High Bandwidth
- Improve Efficiency of Physically & Electronically Small Antennas
- Advanced Matching Techniques
- Easily Deployable Antennas
- Flexible

Sensors & Sensor Systems

- Low Size, Weight, Power, & Cost
- Networking/ Distributed
- Persistence/ Endurance
- Clusters/ Fusion
- Range
- Organic-Silicon Integration
- Signal Identification, Characterization, & Validation

Advanced Materials

- Lightweight/High Strength
- High Energy Density
- Metamaterials
- Tailored Materials
- Coatings
- Advanced Processing/Self-Assembly
- Novel Materials
- Micro-Machining
- Bio-Engineering
- Bio-Inspired & Mediated Processes

Packaging

- Additive Manufacturing
- Bio-Inspired
- Micro-Electronics
- Thermal Management
- Advanced Textiles

Virtualization

- Virtual Networks
- Cloud
- High Performance Computing
- Advanced Search
- Hardware/Software
- Augmented Reality

Trusted Computing

- Encryption
- Hardware Enabled
- Integrated Security Suites
- Data Marking/ Watermarking Techniques

Advanced Data Handling & Analytic Tools

- Visualization
- Active Data
- Multidimensional Data
- Modeling Complex Systems
- Data Storage
- Graph Theory
- Vector Analysis
- Data/Entity Extraction
- Advanced Mash-Up Tools
- Collaborative Analytic Tools & Systems

Signal Processing

- Low Signal to Noise
- Pattern Recognition
- Data Combining for Multiple Disparate Data Sets
- Optimal Information Collection Strategies/Tools
- Compressive Sensing

Biotechnology

- Neuroimaging & Psychophysiology
- Advanced Biometrics
- Biological Weapons Detection & Monitoring
- Biological Engineering
- Crop Health Modeling/Forecasting
- Infectious Disease Events

Methods and Techniques

- Interviewing
- Human Factors Engineering
- Marketing
- Sociocultural Modeling
- Performance Modification

Power

- Harvesting
- Storage
- High Density
- Transporting
- Endurance
- Alternative Generation
- Advanced Materials

Robotics

- Autonomous Operations
- Dexterity
- Swarming
- Range
- Actuation
- Macro to Nanoscale
- Locomotion

Operating Systems

- Embedded
- Cloud-Based
- Parallel Computing
- Enterprise