Brain disorder phenomenology using noninvasive brain analysis

- Develop and evaluate superconducting (SQUID base) instrumentation

- Develop from actual MEG data a patient specific computational electromagnetic brain model

- Diverse technologies including:
  - Superconductivity
  - Cryogenics
  - Thin-film device electronics
  - Advanced signal analysis & image processing
  - Computational electromagnetics
  - Neuroscience

- Military spinoff applications
  - High sensitivity magnetic anomaly sensors
  - Advanced man-machine interface
  - Lie detection phenomenology
  - Audio and visual perception/recognition processes

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