



- Collaborative and tactical autonomy
- Extreme robotic mobility and manipulation
- Verification and Validation (V&V) for autonomy
- Assured symbiosis
- Physiological, biochemical and cognitive sensing technologies

- Advanced physics, processing and sensors
- Data fusion and state estimation
- Embedded designs and RF signal processing
- Optoelectronics and advanced packaging
- RF Spectrum-based machine learning

- Cyber infrastructure
- Malware analysis
- Automated cyber testing
- Secure and high performance computing

- High temperature photonics and electronics
- High fidelity multi-physics modeling and simulation