



## **Attachment 5-A - ERCs and Abbreviations as of October 2019**

### Advanced Manufacturing

- Center for Biorenewable Chemicals (CBiRC)
- Nanosystems ERC for Nanomanufacturing Systems for Mobile Computing and Mobile Energy Technologies (NASCENT)

### Biotechnology and Health Care

- Nanosystems ERC for Cellular Metamaterials (CELL-MET)
- ERC for Cell Manufacturing Technologies (CMaT)
- ERC for Revolutionizing Metallic Biomaterials (RMB)
- Nanosystems ERC for Advanced Self-Powered Systems of Integrated Sensors and Technologies (ASSIST)
- ERC for Precise Advanced Technologies and Health Systems for Underserved Populations (PATHS-UP)
- Center for Neurotechnology (CNT)

### Energy, Sustainability, and Infrastructure

- ERC for Quantum Energy and Sustainable Solar Technologies (QESST)
- ERC for Bio-mediated and Bio-inspired Geotechnics (CBBG)
- Future Renewable Electric Energy Delivery and Management (FREEDM) Systems Center
- Nanosystems ERC for Nanotechnology Enabled Water Treatment Systems (NEWT)
- ERC for Re-Inventing America's Urban Water Infrastructure (ReNUWIt)
- ERC for Ultra-wide Area Resilient Electric Energy Transmission Networks (CURENT)
- ERC for Innovative and Strategic Transformation of Alkane Resources (CISTAR)

### Microelectronics, Sensing, and Information Technology

- Center for Integrated Access Networks (CIAN)
- Nanosystems ERC for Translational Applications of Nanoscale Multiferroic Systems (TANMS)
- ERC for Power Optimization for Electro-Thermal Systems (POETS)
- ERC for Lighting Enabled Systems & Applications (LESA)

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