

**SERC KEY TECHNOLOGY AREAS - FOR REFERENCE (NOT EXCLUSIVE)**

<b>Data Storage</b>	<b>Info-communication</b>	<b>Computational Science and Engineering</b>
Magnetic head materials and design	Data mining, informatics, database systems	Continuum methods in modeling and simulation
Microsystems and nanosystems for data storage	Internet technologies	Nanomechanics
Signal processing for data storage and communications	Cellular mobile technologies	Solid and fluid mechanics
Tribology and tribochemistry, failure analysis	Wireless technologies in microwave/radio frequency	Computational chemistry
Nano spin-electronics	Wireless & satellite communications	Atomistics and molecular dynamics modeling
Optical storage technologies	Network technologies	Quantum computing
Laser nanoprocessing	Distributed computing	
Network storage technologies	Mobile computing	
	Computer security, cryptography	
	Human-machine interface	
<b>Microelectronics</b>	<b>Manufacturing</b>	<b>Materials, Chemical and Environmental Sciences &amp; Engineering</b>
Advanced packaging	Advanced automation systems	Polymer science and chemistry
VLSI design	Control systems	Nanomaterials
Nanoelectronic devices	Precision metrology	Advanced materials characterization
MEMS/NEMS	Robotics control systems	Microscopy methods
Semiconductor physics processing methods	Mechatronics, systems engineering	Nanoparticles
	Micro-manipulation technologies	Macromolecular chemistry
	Laser processing and design	Surface science
	Photonics	Physical, analytical and organic chemistry
	Optics	Biomaterials
	Product development life cycle management	Chemical Process Technology
	Artificial intelligence applications	Separation Technology
	Materials processing casting technologies	Catalysis
	Supply chain management	Environmental Sciences
	Operations research	Analytical Science
		Pharmaceutics
		Bioengineering
		Fuel Cell Technology