## 주요 부처별 국가 우선 순위 분야의 비교

OSTP(National Critical Technologies)	DOC(Emerging Technologies)	DOD(Critical Technologies)
MATERIALS  Materials synthesis and processing Electronic and photonic materials  Ceramics Composites High-performance metals and	Advanced materials     Advanced semiconductor devices     Superconductors  Advanced materials	Composite materials     Semiconductor materials and microelectronic circuits     Superconductors  Composite materials
alloys  MANUFACTURING  • Fiexible computer integrated	Fiexible computer	
reaning computer integrated manufacturing     Intelligent processing equipment     Micro and nanofabrication     Systems management technologies	integrated manufacturing  Artificial intelligence	Machine intelligence and robotics
INFORMATION AND COMMUNICATIONS  • Software • Microelectronics and optoelectronics	High-performance computing     Advanced semiconductor devices     Optoelectronics	Software producibility     Semiconductor materials and microelectronic circuits     Photonics     Parallel computer
<ul> <li>High-perfomance computing and networking</li> <li>High-definition imaging and displays</li> <li>Sensors and signal processing</li> </ul>	High-performance computing     Digital imaging     Sensor technology	architectures     Data fusion     Data fusion     Data fusion     Signal processing     Passive sensors     Sensitive radars     Machine intelligence and robotics     Photonics
<ul> <li>Data storage and peripherals</li> <li>Computer simulation and modeling</li> </ul>	High-density data storage     High-performance computing	Simulation and modeling     Computational fluid dynamics
BIOTECHNOLOGY AND LIFE SCIENCES  • Applied molecular biology	Biotechnology	Biotechnology materials and processes
Medical technology	Medical devices and diagnostics	
AERONAUTICS AND SURFACE TRANSPORTATION  • Aeronautics  • Surface transportation technologies		Air-breathing propulsion
ENERGY AND ENVIRONMENT     Energy technologies     Pollution minimization, remediation, and waste management		
		No National Critical Tech- nologies counterpart: High energy density materials, Hypervelocity Projectiles, Pulsed power, Signature control, Weapon system environment.

자료 : OSTP, National Critical Technologies, March 1991 DOC, Emerging Technologies: A Survey of Technical and Economic Opportunities, Spring 1990 DOD, Critical Technologies Plan, 15, March 1990