

# Glossary

## TECHNICAL ACRONYMS

<b>ADC</b>	Analog-to-Digital Converters
<b>CMOS</b>	Complementary Metal–Oxide–Semiconductor
<b>CNT</b>	Carbon Nanotubes
<b>ECP</b>	Electro-Chemical Plating
<b>FET</b>	Field-Effect Transistor
<b>HSQ</b>	Hydrogen Silsesquioxane
<b>InFO</b>	Integrated Fan Out
<b>MOSFET</b>	Metal–Oxide–Semiconductor Field-Effect Transistor
<b>nTRON</b>	Nanocryotron
<b>RDL</b>	Re-distribution Layers
<b>RIE</b>	Reactive Ion Etching
<b>SNSPDs</b>	Superconducting Nanowire Single Photon Detectors
<b>SS</b>	Subthreshold Swing
<b>TMAH</b>	Tetramethylammonium Hydroxide
<b>TREC</b>	Thermally Regenerative Electrochemical Cycle

## MIT ACRONYMS & SHORTHAND

<b>BE</b>	Department of Biological Engineering
<b>Biology</b>	Department of Biology
<b>ChemE</b>	Department of Chemical Engineering
<b>CICS</b>	Center for Integrated Circuits and Systems
<b>CMSE</b>	Center for Materials Science and Engineering
<b>↑ IRG</b>	Interdisciplinary Research Group
<b>DMSE</b>	Department of Materials Science & Engineering
<b>EECS</b>	Department of Electrical Engineering & Computer Science
<b>ISN</b>	Institute for Soldier Nanotechnologies
<b>KI</b>	David H. Koch Institute for Integrative Cancer Research
<b>LL</b>	Lincoln Laboratory
<b>MAS</b>	Program in Media Arts & Sciences
<b>MechE</b>	Department of Mechanical Engineering
<b>MEDRC</b>	Medical Electronic Device Realization Center
<b>MIT-CG</b>	MIT/MTL Center for Graphene Devices and 2D Systems
<b>MITEI</b>	MIT Energy Initiative
<b>MIT-GaN</b>	MIT/MTL Gallium Nitride (GaN) Energy Initiative

<b>MISTI</b>	MIT International Science and Technology Initiatives
<b>MIT-SUTD</b>	MIT-Singapore University of Technology and Design Collaboration Office
<b>MIT Skoltech</b>	MIT Skoltech Initiative
<b>MTL</b>	Microsystems Technology Laboratories
<b>NSE</b>	Department of Nuclear Science & Engineering
<b>Physics</b>	Department of Physics
<b>Sloan</b>	Sloan School of Management
<b>SMA</b>	Singapore-MIT Alliance
↑ <b>SMART</b>	Singapore-MIT Alliance for Research and Technology Center
↑ <b>SMART-LEES</b>	SMART Low Energy Electronic Systems Center
<b>SUTD-MIT</b>	MIT-Singapore University of Technology and Design Collaboration Office
<b>UROP</b>	Undergraduate Research Opportunities Program

## U.S. GOVERNMENT ACRONYMS

<b>AFOSR</b>	U.S. Air Force Office of Scientific Research
↑ <b>FATE-MURI</b>	Foldable and Adaptive Two-dimensional Electronics Multidisciplinary Research Program of the University Research Initiative
<b>AFRL</b>	U.S. Air Force Research Laboratory
<b>ARL</b>	U.S. Army Research Laboratory
↑ <b>ARL-CDQI</b>	U.S. Army Research Laboratory Center for Distributed Quantum Information
<b>ARO</b>	Army Research Office
<b>ARPA-E</b>	Advanced Research Projects Agency - Energy (DOE)
<b>DARPA</b>	Defense Advanced Research Projects Agency
↑ <b>DREaM</b>	Dynamic Range-enhanced Electronics and. Materials
<b>DoD</b>	Department of Defense
<b>DoE</b>	Department of Energy
↑ <b>EFRC</b>	U.S. Department of Energy: Energy Frontier Research Center (Center for Excitonics)
<b>DTRA</b>	U.S. DoD Defense Threat Reduction Agency
<b>IARPA</b>	Intelligence Advanced Research Projects Activity
↑ <b>RAVEN</b>	Rapid Analysis of Various Emerging Nanoelectronics
<b>NASA</b>	National Aeronautics and Space Administration
↑ <b>GSRP</b>	NASA Graduate Student Researchers Project
<b>NDSEG</b>	National Defense Science and Engineering Graduate Fellowship
<b>NIH</b>	National Institutes of Health
↑ <b>NCI</b>	National Cancer Institute
<b>NNSA</b>	National Nuclear Security Administration

<b>NRO</b>	National Reconnaissance Office
<b>NSF</b>	National Science Foundation
↑ <b>CBMM</b>	NSF Center for Brains, Minds, and Machines
↑ <b>CIQM</b>	Center for Integrated Quantum Materials
↑ <b>CSNE</b>	NSF Center for Sensorimotor Neural Engineering
↑ <b>E3S</b>	NSF Center for Energy Efficient Electronics Science
↑ <b>GRFP</b>	Graduate Research Fellowship Program
↑ <b>IGERT</b>	NSF The Integrative Graduate Education and Research Traineeship
↑ <b>NEEDS</b>	NSF Nano-engineered Electronic Device Simulation Node
↑ <b>PECASE</b>	Presidential Early Career Awards for Scientists and Engineers
↑ <b>SEES</b>	NSF Science, Engineering, and Education for Sustainability
↑ <b>STC</b>	NSF Science-Technology Center
<b>ONR</b>	Office of Naval Research

## OTHER ACRONYMS

<b>CNRS Paris</b>	Centre National de la Recherche Scientifique
<b>CONACyT</b>	Consejo Nacional de Ciencia y Tecnología (Mexico)
<b>IEEE</b>	Institute of Electrical and Electronics Engineers
<b>IHP Germany</b>	Innovations for High Performance Microelectronics Germany
<b>KIST</b>	Korea Institute of Science and Technology
<b>KFAS</b>	Kuwait Foundation for the Advancement of Sciences
<b>MASDAR</b>	Masdar Institute of Science and Technology
<b>NTU</b>	Nanyang Technological University
<b>NUS</b>	National University of Singapore
<b>NYSCF</b>	The New York Stem Cell Foundation
<b>SRC</b>	Semiconductor Research Corporation
↑ <b>NEEDS</b>	NSF/SRC Nano-Engineered Electronic Device Simulation Node
<b>SUTD</b>	Singapore University of Technology and Design
<b>TEPCO</b>	Tokyo Electric Power Company
<b>TSMC</b>	Taiwan Semiconductor Manufacturing Company