

TECHNICAL ACRONYMS

ADC Analog-to-Digital Converters

CMOS Complementary Metal-Oxide-Semiconductor

CNT Carbon Nanotubes

FET Electro-chemical Plating
FET Field-effect Transistor
HSQ Hydrogen Silsesquioxane

InFO Integrated Fan Out

MOSFET Metal-Oxide-Semiconductor Field-effect Transistor

nTRON Nanocryotron

RDL Re-distribution Layers
RIE Reactive ion etching

SNSPDs Superconducting nanowire single photon detectors

SS Subthreshold swing

TMAH Tetramethylammonium Hydroxide

TREC Thermally regenerative electrochemical cycle

MIT ACRONYMS & SHORTHAND

BE Department of Biological Engineering

Biology Department of Biology

CICS Center for Integrated Circuits and Systems

CMSE Center for Materials Science and Engineering

LIRG Interdisciplinary Research Group

DMSE Department of Materials Science & Engineering

EECS Department of Electrical Engineering & Computer Science

ISN Institute for Soldier Nanotechnologies

KI David H. Koch Institute for Integrative Cancer Research

LL Lincoln Laboratory

MAS Program in Media Arts & Sciences

MechE Department of Mechanical Engineering

MEDRC Medical Electronic Device Realization Center

MIT-CG MIT/MTL Center for Graphene Devices and 2D Systems

MIT Energy Initiative

MIT-GaN MIT/MTL Gallium Nitride (GaN) Energy Initiative

MIT International Science and Technology Initiatives

MIT-Surgapore University of Technology and Design Collaboration Office

MIT Skoltech Initiative

MTL Microsystems Technology Laboratories

NSE Department of Nuclear Science & Engineering

Physics Department of Physics

Sloan School of Management

SMA Singapore-MIT Alliance

LSMART Singapore-MIT Alliance for Research and Technology Center

SMART-LEES SMART Low Energy Electronic Systems Center

SUTD-MIT MIT-Singapore University of Technology and Design Collaboration Office

UROP Undergraduate Research Opportunities Program

U.S. GOVERNMENT ACRONYMS

AFOSR U.S. Air Force Office of Scientific Research

FATE-MURI Foldable and Adaptive Two-dimensional Electronics

Multidisciplinary Research Program of the University Research Initiative

ARL U.S. Air Force Research Laboratory

U.S. Army Research Laboratory

LARL-CDQI U.S. Army Research Laboratory Center for Distributed Quantum Information

ARO Army Research Office

ARPA-E Advanced Research Projects Agency - Energy (DOE)

DARPA Defense Advanced Research Projects Agency

DREaM Dynamic Range-enhanced Electronics and. Materials

DoD Department of Defense **DoE** Department of Energy

LEFRC U.S. Department of Energy: Energy Frontier Research Center (Center for Excitonics)

DTRA
U.S. DoD Defense Threat Reduction Agency
IARPA
Intelligence Advanced Research Projects Activity

RAVEN
Rapid Analysis of Various Emerging Nanoelectronics

NASA National Aeronautics and Space Administration

LGSRP NASA Graduate Student Researchers Project

NDSEG National Defense Science and Engineering Graduate Fellowship

NIH National Institutes of Health

LNCI National Cancer Institute

NNSA National Nuclear Security Administration

NRO National Reconnaissance Office

NSF National Science Foundation

CERMM NSF Center for Brains, Minds, and Machines **CIQM** Center for Integrated Quantum Materials

LE3S NSF Center for Sensorimotor Neural Engineering

NSF Center for Energy Efficient Electronics Science

CARPP Graduate Research Fellowship Program

LIGERT NSF The Integrative Graduate Education and Research Traineeship

NEEDSNSF Nano-engineered Electronic Device Simulation Node

SEES
NSF Science, Engineering, and Education for Sustainability

STC NSF Science-Technology Center

ONR Office of Naval Research

Presidential Early Career Awards for Scientists and Engineers

OTHER ACRONYMS

CNRS Paris Centre National de la Recherche Scientifique

CONACyT Consejo Nacional de Ciencia y Tecnología (Mexico)

IEEE Institute of Electrical and Electronics Engineers

IHP Germany Innovations for High Performance Microelectronics Germany

KIST Korea Institute of Science and Technology

KFAS Kuwait Foundation for the Advancement of Sciences

MASDAR Masdar Institute of Science and Technology

NTU Nanyang Technological University
 NUS National University of Singapore
 NYSCF The New York Stem Cell Foundation
 SRC Semiconductor Research Corporation

NEEDS NSF/SRC Nano-Engineered Electronic Device Simulation Node

SUTD Singapore University of Technology and Design

TEPCO Tokyo Electric Power Company

TSMC Taiwan Semiconductor Manufacturing Company