NMAC carries out basic and applied research focused on advanced nano & microsystems development through interdisciplinary partnerships between academic faculty and industrial/government researchers.
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NMAC Mission

The Nano and Microsystems Applications Center (NMAC) has been established to integrate interdisciplinary faculty, graduate students, and visiting researchers from academia, industry, and government. The common denominator between these participants is their applied and basic research in advanced integrated nano & microsystems design, implementation, characterization, and application technologies. NMAC’s integration role is in supporting research with industrial, government, and academic funding and state-of-the-art research equipment. The Center aims to provide graduate education through research, courses, and seminars on topics related to integrated nano & microsystems and their applications. NMAC also works to transfer technologies related

INTEGRATED MEMS/NEMS AND NANO-ENABLED DEVICES
Value added NEMS/MEMS solutions for mechanical, optical, thermal, wireless, bio, medical applications. Integrated RF MEMS passives, RF MEMS antennas, optical MEMS devices, uncooled infrared detectors, CMOS integration with NEMS/MEMS microstructures. Integration of new nanostructures such as nanowires, CNTs, nanoparticles, magnetic particles, DNA scaffolding on microelectronics or microscale platforms for functional controls and interfaces.


BioMEMS, MICROFLUIDICS AND BIOSENSORS


FLEXIBLE ELECTRONICS AND PACKAGING

S. Campbell, T. Cui, R. Drayton, H. Jacobs, S. Kumar, E. Yoon

WIRELESS SENSOR NETWORKS

R. Harjani, C. Kim, R. Rajamani, W. Robbins, E. Yoon

LOW-POWER MIXED-SIGNAL DESIGN

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MICRO POWER SOURCES

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