Flexible Wearable Electronics Advanced Research at the Georgia Institute of Technology is a campus-wide, multidisciplinary research and development, manufacturing, educational, and workforce-development initiative, involving a large number of faculty, graduate and undergraduate students, engineers, scientists, and staff from various schools, colleges, research centers and institutes. Team members work with other educational institutions, industry, and government agencies developing and implementing new technologies and manufacturing methods for Flexible Electronics as well as Wearable Electronics. They also actively engage in educating and growing a competitive workforce that positively impacts the economic ecosystem in addressing some of the grand challenges associated with food, clean water, health, clean energy, infrastructure, mobility, and security for the sustainable progress of humanity and society.

RESEARCH FOCUS AREAS

- Design, Modeling, and Simulation
- Materials and Processing
- Interconnect, Assembly, and Packaging
- Sensing and Applications
- Soft Robotics and Materials
- Test and Reliability
- Prototyping and Manufacturing Methods
- Workforce Development

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TECHNICAL GROUPS

DESIGN, MODELING, AND SIMULATION
Satish Kumar, Olivier Pierron, Suresh Sitaraman, and Madhavan Swaminathan

MATERIALS AND PROCESSING

INTERCONNECT, ASSEMBLY, AND PACKAGING
Muhammad Bakir, Jack Moon, P. Markondaya Raj, Vanessa Smet, Suresh Sitaraman, Rao Tummala, C.P. Wong, and Gleb Yushin

SENSING AND APPLICATIONS
Oliver Brand, Peter Hesketh, Omer Inan, Sudaresan Jayaraman, Manos Tentzeris, Eric Vogel, Z.L. Wang, W. Hong Yeo, and Chuck Zhang

SOFT ROBOTICS AND MATERIALS – SENSING AND ACTUATION
Jaydev Desai, Frank Hammond, David Hu, Jun Ueda, W. Hong Yeo, and Aaron Young

TEST AND RELIABILITY
Abhijit Chatterjee, Samuel Graham, Olivier Pierron, Suresh Sitaraman, and I. Charles Ume

PARTICIPATING UNITS @ GEORGIA TECH
- Biomedical Engineering
- Chemical and Biomolecular Engineering
- Electrical and Computer Engineering
- Industrial and Systems Engineering
- Materials Science and Engineering
- Mechanical Engineering
- Institute for Electronics and Nanotechnology (IEN)
- 3-D Systems Packaging Research Center
- Georgia Tech Manufacturing Institute
- Institute of Materials (IMAT)
- Office of Industry Collaboration

FOR ADDITIONAL INFORMATION CONTACT:
Suresh K. Sitaraman, Ph.D.
Regents’ Professor and
Morris M. Bryan, Jr. Professor
Director, FlexWEAR @ Tech
Phone: 404-894-3405
suresh.sitaraman@me.gatech.edu

Dean A. Sutter
Associate Director
Institute for Electronics
and Nanotechnology
Phone: 404.894.3847
dean.sutter@ien.gatech.edu

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