Bioengineering

Dr. Guy German (PI), SCA Hygiene Products AB, Effects of ageing and prolonged exposure to incontinent environments on the structure, function and mechanics of human stratum corneum.

Dr. Guy German (PI), Schick Manufacturing Incorporated, Surfactant Binding and Surface Topography of Human Stratum Corneum after Application of Shave Preparations.

Dr. Sha Jin (Co-PI), National Science Foundation, EAGER: Bioprinting Personalized Islets, Dr. Kaiming Ye (PI).

Dr. Gretchen Mahler (PI), National Science Foundation, A Workshop for Integrative Additive Biomanufacturing and Tumor Engineering, Bethesda, MD, February 19-20, 2015.

Dr. Gretchen Mahler (PI), National Science Foundation, Endothelial to Mesenchymal Transformation Mechanobiology, Dr. Peter Huang (Co-PI) and Dr. Bruce Murray (Co-PI).

Dr. Kaiming Ye (PI), National Science Foundation, EAGER: Bioprinting Personalized Islets, Dr. Sha Jin (Co-PI).

Computer Science

Dr. Kanad Ghose (PI), NYS Energy Research and Development Authority, Effectiveness, Efficiency, and Integrated Improvements of Warm Water Direct Liquid Cooling Systems Agreement 41201, Dr. Bahgat G. Sammakia (Co-PI).

Dr. Dmitry V. Ponomarev (PI), National Science Foundation, TWC:Small:Side Channels Through Lower-Level Caches: Attacks, Defenses and Security Metrics.

Electrical & Computer Engineering

Dr. Aaron P. Carpenter (Co-PI), National Science Foundation, Scholarship Program for Master’s Degree Seeking Students in Engineering, Dr. James Pitarresi (Co-PI) and Dr. Stephen Zahorian (PI).

Dr. Yu Chen (Co-PI), **National Science Foundation**, EARS Collaborative Research - Intelligence Measure of Cognitive Radio Networks, Dr. Xiaohua Li (PI).

Dr. Tara Prasad Dhakal, **National Renewable Energy Laboratory**, Study of Alternative Cd-free n-type Buffer Layers for use with Cu2ZnSnS4 (CZTS) Solar Cell Absorbers.

Dr. Zhanpeng Jin (Co-PI), **Analog Devices**, Electrical Design, Characterization, and Thermal Modeling of Selected Electrical Packages, Dr. Krishnaswami Srihari (PI).

Dr. Zhanpeng Jin (PI), **National Science Foundation**, TWC SBE: Small: Collaborative Brain Password: Exploring A Psychophysiological Approach for Secure User Authentication, Dr. Sarah Laszlo (Co-PI).

Dr. Xiaohua Li (PI), **National Science Foundation**, EARS Collaborative Research - Intelligence Measure of Cognitive Radio Networks, Dr. Yu Chen (Co-PI).

Dr. Stephen Zahorian (PI), **National Science Foundation**, Scholarship Program for Master’s Degree Seeking Students in Engineering, Dr. Aaron P. Carpenter (Co-PI), Dr. James Pitarresi (Co-PI).

Dr. Ning Zhou, **Battelle Memorial Institute**, Binghamton University Contributions to Data Integrity and Situational Awareness Tools (DISAT).

**Mechanical Engineering**

Dr. Paul Chiarot (PI), **National Science Foundation**, MRI: Development of a Microfluidic Instrument for High-throughput Production of Asymmetric Vesicles to Support Membrane Biology Research, Dr. Jeffrey W. Schertzer (Co-PI).

Dr. Junghyun Cho, **Analog Devices**, Hermetic Sealing through Eutectic Bonding of Al-GE.

Dr. Junghyun Cho, **Analog Devices**, Interconnect Methods in Packaging.

Dr. Peter Huang (Co-PI), **National Science Foundation**, Endothelial to Mesenchymal Transformation Mechanobiology, Dr. Gretchen Mahler (PI) and Dr. Bruce Murray (Co-PI).

Dr. Bruce T. Murray, **Multiple Sponsors**, Unrestricted Support from Trade Commission of Peru in New York for Formula One Project.
Dr. Bruce T. Murray (Co-PI), **National Science Foundation**, Endothelial to Mesenchymal Transformation Mechanobiology, Dr. Peter Huang (Co-PI) and Dr. Gretchen Mahler (PI).

Dr. Seungbae Park, **Advanced Semiconductor Engineering Incorporated**, Joint Research in Digital Imaging Correlation and Applications.

Dr. Seungbae Park, **Analog Devices**, Investigating Temperature and Time Dependent Stress Relaxation Behavior of MEMS Packages and Packaging Materials.

Dr. Seungbae Park, **Corning Incorporated**, Deflection and Strain Response of Corning Gorilla Glass during Ball Drop.

Dr. Seungbae Park, **Corning Incorporated**, Experimental Plan Measurements.

Dr. Seungbae Park (Co-PI), **Universal Instruments Corporation**, Electronic Interconnect Reliability Under Multiple Loading Conditions, Mr. Quang T. Su (PI).

Dr. James Pitarresi (Co-PI), **National Science Foundation**, Scholarship Program for Master’s Degree Seeking Students in Engineering, Dr. Aaron P. Carpenter (Co-PI) and Dr. Stephen Zahorian (PI).

Mr. Quang T. Su (PI), **Universal Instruments Corporation**, Electronic Interconnect Reliability Under Multiple Loading Conditions, Dr. Seungbae Park (Co-PI).

Dr. Ryan Willing, **Force and Motion Foundation**, Unrestricted Research Support.

Dr. Hao Wang, **Meecotech Incorporated**, Unrestricted Support from Meecotech.

Dr. Hao Wang, **Samsung Advanced Institute of Technology**, GRO Research Agreement – 2015.

**Systems Science & Industrial Engineering**

Dr. Peter Borgesen, **Universal Instruments Corporation**, Electronics Manufacturing Research.

Dr. Chun-An Chou (Co-PI), **United Health Services**, Healthcare Systems Engineering and Operational Excellence, Dr. Mohammad Khasawneh (Co-PI), Dr. Krishnaswami Srihari (PI).

Dr. Mohammad Khasawneh (Co-PI), **Cooper University Health Care**, Redesign of Care Processes and Workflows to Facilitate the Implementation of a Customer Relationship Management System, Dr. Krishnaswami Srihari (PI).
Dr. Mohammad Khasawneh (PI), Department of Veterans Affairs, Functional Job Analysis of Anticoagulation Clinic Staff (New England Veterans Engineering Resource Center) IF CAP Obligation Number 523C40209, Dr. Krishnaswami Srihari (Co-PI).

Dr. Mohammad Khasawneh (PI), Department of Veterans Affairs, Functional Job Analysis of Anticoagulation Clinic Staff (NEVERC) Fixed Price Portion, Dr. Krishnaswami Srihari (Co-PI).

Dr. Mohammad Khasawneh (Co-PI), Montefiore Hospital and Medical Center, Business Process Engineering Support for Network Care Management systems, Dr. Krishnaswami Srihari (PI).

Dr. Mohammad Khasawneh (Co-PI), Montefiore Hospital and Medical Center, Improving the Efficiency and Effectiveness of Healthcare Delivery, Dr. Krishnaswami Srihari (PI).

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Dr. Mohammad Khasawneh (Co-PI), United Health Services, Healthcare Systems Engineering and Operational Excellence, Dr. Chun-An Chou (Co-PI), Dr. Krishnaswami Srihari (PI).

Dr. Sarah Lam (Co-PI), Team World Corporate Programs, Business Analytics for Marketing and Sales, Dr. Krishnaswami Srihari (PI).

Dr. Nagen Nagarur (Co-PI), Sanmina-SCI Corporation, Research in Electronics Packaging and Manufacturing, Dr. Krishnaswami Srihari (PI).

Dr. Daryl L. Santos (Co-PI), Analog Devices, Characterization and Thermal Modeling of Selected Electronic Packages, Dr. Krishnaswami Srihari (PI).

Dr. Hiroki Sayama, National Science Foundation, RI:Small: BCSP Robustness and Adaptation in Morphogenetic Collective Systems.


Dr. Krishnaswami Srihari (PI), Analog Devices, Characterization and Thermal Modeling of Selected Electronic Packages, Dr. Daryl L. Santos (Co-PI).

Dr. Krishnaswami Srihari (PI), Analog Devices, Electrical Design, Characterization, and Thermal Modeling of Selected Electrical Packages, Dr. Zhanpeng Jin (Co-PI).
Dr. Krishnaswami Srihari (PI), Cooper University Health Care, Redesign of Care Processes and Workflows to Facilitate the Implementation of a Customer Relationship Management System, Dr. Mohammad Khasawneh (Co-PI).

Dr. Krishnaswami Srihari (Co-PI), Department of Veterans Affairs, Functional Job Analysis of Anticoagulation Clinic Staff (New England Veterans Engineering Resource Center) IFCAP Obligation Number 523C40209, Dr. Mohammad Khasawneh (PI).

Dr. Krishnaswami Srihari (Co-PI), Department of Veterans Affairs, Functional Job Analysis of Anticoagulation Clinic Staff (NEVERC) Fixed Price Portion, Dr. Mohammad Khasawneh (PI).


Dr. Krishnaswami Srihari (PI), Innovation Associates, Migrating Modules and Forms of Symphony Pharmacy Workflow system, Dr. Sangwon Yoon (Co-PI).

Dr. Krishnaswami Srihari (PI), Montefiore Hospital and Medical Center, Business Process Engineering Support for Network Care Management systems, Dr. Mohammad Khasawneh (Co-PI).

Dr. Krishnaswami Srihari (PI), Montefiore Hospital and Medical Center, Improving the Efficiency and Effectiveness of Healthcare Delivery, Dr. Mohammad Khasawneh (Co-PI).

Dr. Krishnaswami Srihari (PI), Raymond Corporation, Analyzing Characteristics of Different Warehouse Operations using Discrete Event Simulation Model Dr. Sangwon Yoon (Co-PI).

Dr. Krishnaswami Srihari (PI), Sanmina-SCI Corporation, Research in Electronics Packaging and Manufacturing, Dr. Nagen Nagarur (Co-PI).

Dr. Krishnaswami Srihari, Smart Modular Technologies, Inc., Research in the Assembly of Complex Surface Mount Devices.

Dr. Krishnaswami Srihari (PI), Team World Corporate Programs, Business Analytics for Marketing and Sales, Dr. Sarah Lam (Co-PI).

Dr. Krishnaswami Srihari (PI), United Health Services, Healthcare Systems Engineering and Operational Excellence, Dr. Mohammad Khasawneh (Co-PI), Dr. Chun-An Chou (Co-PI).

Dr. Krishnaswami Srihari (PI), US Xpress Incorporated, Applying Lean Six Sigma and 4DX Principles for Fleet Optimization, Dr. Sangwon Yoon (Co-PI).
Dr. Sangwon Yoon (Co-PI), **Innovation Associates**, Migrating Modules and Forms of Symphony Pharmacy Workflow system, Dr. Krishnaswami Srihari (PI).

Dr. Sangwon Yoon (Co-PI), **Raymond Corporation**, Analyzing Characteristics of Different Warehouse Operations using Discrete Event Simulation Model, Dr. Krishnaswami Srihari (PI).

Dr. Sangwon Yoon (Co-PI), **US Xpress Incorporated**, Applying Lean Six Sigma and 4DX Principles for Fleet Optimization, Dr. Krishnaswami Srihari (PI).

Watson School

Dr. Steven Czarnecki, **Foundation at SUNY Binghamton**, Support for S3iP Activities.

Dr. Kanad Ghose, **ExSys Technology Incorporated**, I/UCRC Membership 2015-2016 – ExSys Technology.

Ms. Shanise N. Kent, **Multiple Sponsors**, Binghamton University Research Symposium and Graduate School Application Retreat.

Dr. Mark D. Poliks, **Corning Incorporated**, Roll-to-Roll (R2R) Fabrication of Electronic Corning Willow Glass Surfaces.

Dr. Mark D. Poliks (PI), **National Renewable Energy Laboratory**, Roll-To-Roll Processing Of Transparent Conductive Oxide Coatings For The Solar Energy Research Institute For India And The United States, Dr. Louis Piper (Co-PI).

Dr. Bahgat G. Sammakia, **National Transportation Safety Board**, Task Order No. NTSBTO14009 Item Number 0001 X-Ray Examination of Memory Chips Support Services PUR140347 Referenced IDV Line 0004.

Dr. Bahgat G. Sammakia, **National Transportation Safety Board**, Task Order No. NTSBTO14010 Item No. 0001 LED On/Off State Determination Post-Crash Study PUR140348 IDV Line 0004 LED on/off State Determination Post Crash Study.

Dr. Bahgat G. Sammakia, **NYS Department of Economic Development**, Center for Advanced Technology 7/1/14-6/30/15.

Dr. Daryl L Santos, **Analog Devices**, Support of a Graduate Student Dedicated to ADL Research.

Dr. Daryl L Santos, **Analog Devices**, IEEC Membership-Analog Devices.
Dr. Daryl L. Santos, **BAE Systems Controls Incorporated**, IEEC Membership 2015 for BAE Systems.

Dr. Daryl L. Santos, **Corning Incorporated**, IEEC Membership 2014-2015-Corning Inc.

Dr. Daryl L Santos, **D. E. Shaw Research, LLC**, IEEC Membership-D.E. Shaw Research.

Dr. Daryl L Santos, **Endicott Research Group Incorporated**, IEEC Membership - Endicott Research Group.

Dr. Daryl L Santos, **i3 Electronics Incorporated**, IEEC Membership 2015/16 – i3 Electronics.

Dr. Daryl L. Santos, **Prismark Partners LLC**, Teardown Project September 1, 2014 to August 31, 2015.

Dr. Daryl L Santos, **Sanmina-SCI Corporation**, IEEC Membership 2015-16 Sanmina-SCI.

Dr. Daryl L. Santos, **Smart Modular Technologies, Inc.**, IEEC Membership 2015-2016 – Smart Modular.