Sanje Ponnudurai (NJIT) – School of Management (Business)
Research: Orange Phone Repair

Crystal Rogers (NJIT) – Business
Research: Standard Property Investments

Ilesha Sevak (NJIT)** – Interdisciplinary Design Studio—Honors College
Research: QuikGraft

Paul Sullivan (NJIT) – Interdisciplinary Design Studio—Honors College
Research: Koala Band

Daniel Tanis (NJIT) – Interdisciplinary Design Studio—Honors College
Research: Koala Band

Evan Tyerman (NJIT)** – Interdisciplinary Design Studio—Honors College
Research: QuikGraft

Ivette Vargas (NJIT) – School of Management
Research: Antique Deals

Biophysics SRP

Bartholomew Philip (NJIT) – Physics/Mathematics
Research: Capacitive Measurements showing success of a sensor for aiding brain injury

Deliris Diaz (NJIT)* – Physics
Research: Toward a cancer treatment: optimizing the conformation of microtubles

Sathvik Murli (NJIT) – Physics
Research: Development of software for a tonometer to prevent blindness

Dhara Rana (NJIT) – Physics
Research: Analyzing the flexural rigidity of Microtubules in the presence of Taxol to fight cancer

Dylan Renaud (NJIT) – Physics
Research: Fabrication of a high-power density, implantable fuel cell using functionalized nanotubes

Jennifer Rochette (NJIT) – Physics
Research: Control of microtubule length variation and its possibility of controlling cancer

Anthony SanFilippo (NJIT) – Physics
Research: Successful fabrication and testing of a new tonometer for preventing blindness

David Villacais (SEED) – Physics
Research: Impedance spectroscopy measurement of the membrane potential as a drug toxicity indicator

Joshua Wang (NJIT) – Physics
Research: Measurement of ion channels usingcarbon nanotubes as a health check for a cell

*Also participated in the Provost program

Theresa Wagner (NJIT) - Physics
Research: Fabrication of faster, moral durable Vibration-Powered Impact Record for warfighter safety

Phelan Yu (NJIT) – Physics
Research: Demonstration of a nanotube-enzyme device

International Summer Student Exchange Program with PONTIFICIA UNIVERSIDAD JAVERIANA

Garcia Karen (NJIT) – Biomedical Engineering
Research: The Ulceration of the Diabetic Foot

Stevi Guzman (NJIT) – Chemical Engineering
Research: Modeling and control of the oxygen transfer process in a bioreactor

Juan Manuel Vasques (Pontificia Universidad Javeriana) – Electronics Engineering
Research: Functional brain mapping using high frequency fMRI signal

Jessica Marfo (NJIT) — Biomedical Engineering
Research: Early diagnostic tools for Ulceration of the Diabetic Foot

Juan Sebastian Adame (Pontificia Universidad Javeriana) – Electronics Engineering
Research: Three Degree of Freedom Admittance Controlled Haptic Device

NSF Undergraduate Research Program; EXTREEMS-QED

Jake Brusca (NJIT) – Mathematical Science
Research: Sequential Filtering for Signal Analysis

Jacob Moorman (NJIT) – Computational Science/Computer Science
Research: Sequential Filtering for Signal Analysis

NSF Nanotechnology

Sonali Kamath (NJIT) – Physics
Research: Diabet-Ease: selectivity of nanotube-mounted glucose-oxidase tor glucose to treat diabetes

Kenneth Ly (NJIT) – Physics
Research: Deposition of aptamers on carbon nanotubes to detect target molecules for a blood sensor

Hathija Noor (NJIT) – Chemical Engineering
Research: Effects of solvent-less coating with nanopartides on drug release rate from tablets

Akshat Patel (NJIT) – Electrical Engineering
Research: Switching grapheme based Field Effect Transistor using negative differential resistance

Danielle Quijano (NJIT) – Chemical Engineering
Research: Oxidation and combustion of mechanically alloyed nanocomposite Al·Mg powders in water

**Also participated in the TechQuest Innovation Program as Winner

NJ Space Grant Consortium Summer Research Program

Colin McHugh (Ramapo) – Physics
Research: Control System for 2-m Solar Radio Antenna

Michael Papili (Ramapo)– Physics
Research: Structures related to peptide aggregation for Alzheimer's and Parkinson's diseases

Christo Videlov (Ramapo) – Physics
Research: Detection of an electrical signal from a single cell using carbon nanotubes

NSF Faculty Research Experience Undergraduate Supplement

Timothy Boyle (NJIT) - Computer Science
Research: "Efficient Algorithms for Analyzing Cascading Failures in a Markovian Dependability Model"

Venkata Kajur (NJIT) – School of Management
Research: Applications of Nested Virtualization

Frank Vorrius (NJIT) – Physics
Research: Effects of Atmospheric Propagation on wireless Terahertz Communication Links

Research Advisors

Dr. Ali Abdi	Dr. Haim Grebel
Dr. Shahriar Afkhami	Prof. Gal Haspel
Dr. Cesar Bandera	Prof. David Horntrop
Dr. Robert Barat	Dr. Dentcho Ivanov
Dr. Michael Bieber	Dr. Michael Jaffe
Dr. Ecevit Bilgili	Prof. Alokik Kanwal
Dr. Bharat Biswal	Dr. Abdallah Khreishah
Dr. Joseph Bozzelli	Dr. Eon Lee
Dr. George Collins	Dr. Treena Livingston
Dr. Sanchoy Das	Prof. Balraj Mani
Dr. Raj Dave	Dr. Eliza Michalopoulou
Dr. Atam Dhawan	Dr. Durgamadhab Misra
Dr. Cristiano L. Dias	Dr. Marvin Nakayama
Dr. Martha Zequera Diaz	Dr. Camelia Prodan
Prof. Casey Diekman	Dr. Ravindra M. Nuggehalli
Dr. Kyle Dobiszewski	Dr. Usman Roshan
Dr. Edward Dreizin	Dr. Fredy Ruiz
Dr. Michael Ehrlich	Dr. Ruby J. Sampson
Dr. Gabrielle Esperdy	Dr. Yun Shi
Dr. Edgardo Farinas	Dr. Andrew Sohn
Dr. Reginald Farrow	Dr. Gordon Thomas
Dr. John Federici	Dr. Xianqin Wang
Dr. Eric Fortune	Dr. Wen Zhang
Dr. Richard Foulds	
Prof. Richard Garber	
Dr. Dale Gary	

NJIT Seventh International Undergraduate Summer Research Symposium July 31, 2014

Symposium Chair - Dr. Angelo J. Perna
Symposium Co-Chair - Ms. Zara Williams

Executive Director, Undergraduate Research and Innovation (URI) - Dr. Atam P. Dhawan

NJIT
New Jersey's Science & Technology University

Ronald E. McNair Postbaccalaureate Achievement Program

Erole Alexandre (NJIT) – Computer Engineering
Research: High-K Dielectric Material (HfALO) - Si Interface Quality Studied by Mos-Capacitance Conductance Techniques

Noor Aly (NJIT) – Chemical Engineering
Research: Heterogeneous Impact Initiation of Tungsten-based Reactive Materials

Jose Chacon (NJIT) – Chemical Engineering
Research: Effects of Turbulence on Burn Rate of Reactive Material Particles

Michael Cruz De La (NJIT) – Business & Information Systems
Research: Collaborative Learning through Assessment: Literature Review on Motivation and Assignment Editor

Pierre Mbe Fokam (NJIT) – Computer Engineering/Computer Science
Research: Indoor System Involving Wi-Fi and Visible Light Communication

Nazmul Hossain (NJIT) – Chemical Engineering
Research: Spark Ignition of Nanocomposite Thermite Powders

Jaelynne King (NJIT) – Chemical Engineering
Research: Conversion of Carbon Dioxide to Useful Liquid Chemicals Using A Novel Organic Based Catalytic System

Alex Nyamweya (NJIT) – Electrical Engineering/Applied Mathematics
Research: Developing Interpersonal Skills and Facilitating Integration of a New Learning Method

Joshua Ortega (NJIT) – Information Technology
Research: Collaborative Learning Through Assessment (CLASS) Facilitating of a Flexible Framework and Literature Review

Anthony Quarato (NJIT) – Chemical Engineering
Research: Impact of Polymer Molecular Weight on the Physical Stability of Milled Drug Suspensions

HIT-NJIT Summer Research Program

Saba Bano (HIT) – Biomedical Engineering
Research: Fabrication of gelatin/glycosaminoglycans (GAG) scaffolds using electrospining technique in tissue engineering for spinal cord repair

Indrasis Banerjee (HIT) – Electrical and Computer Engineering
Research: A Hybrid System: Coexistence of Visible Light Communication (VLC) and Wi-Fi

Polley Bhunia (HIT) – Electrical and Computer Engineering
Research: Statistical Modeling of the Received Power in Wireless Networks

Poulami Chakraborty (HIT) – Electrical and Computer engineering
Research: Image Statistical Analysis & its application to Information Forensics

Sunandan Dhar (HIT) – Chemistry and Environmental Science
Research: Engineering CotA Laccase for Acidic pH Stability using *Bacillus subtilis* Spore Display

Sourav Dutta (HIT) – Electrical and Computer Engineering
Research: Characterization of Deep Level Defects in a Thin Film Solar Cell

Saptadwipa Ganguly (HIT) – Biomedical Engineering
Research: Functional MRI: A Tool for Evaluating Psychiatric Disorders

Sunil Kumar (BRCM CET) – Physics
Research: Analyzing and Finding Solar Radio Burst Events Using IDL

Gaurab Kar (HIT) – Mechanical and Industrial Engineering
Research: Analysis of Repeatability of an Industrial Robotic Arm

Mitul Khanchandani (HIT) – Mechanical and Industrial Engineering
Research: Analysis of Repeatability of an Industrial Robotic Arm

Surajit Laik (HIT) – Electrical and Computer Engineering
Research: Statistical Modeling of the Received Power in Wireless Networks

Vikas Mittal (BRCM CET) – Biomedical Engineering
Research: Design and Fabrication of Variable pressure sensing microfluidic valve

Swapnadeep Poddar (HIT) – Electrical and Computer Engineering
Research: Understanding Defects in TiN/HfZrO/SiON/Si Gate Stacks

Aruja Rustagi (HIT) – Biomedical Engineering
Research: Fabrication and evaluation of PVDF-TrFE/PEO scaffolds for drug delivery

Samrat Saha (HIT) - Electrical and Computer Engineering
Research: A Hybrid System: Coexistence of Visible Light Communication (VLC) and Wi-FI

Provost's Undergraduate Summer Research

Roa Al – Abdalla (NJIT)* – Biology
Research: The Trans – Palberal Self-Tonometer

Victor Aladele (NJIT) – Electrical Engineering
Research: ComfyMat for Diabetic Foot Ulcers

Andres Alban (NJIT) – Applied Physics, Math
Research: Infrared Imaging of Objects in Contact with Water

Nesseline Belceus (NJIT) – Civil & Environmental Engineering
Research: Magnetic Nanoparticles for Algal Harvesting

Karthik Chandrasekaran (NJIT)* – Chemistry
Research: Development of Anti-Oxidation Catalysts

Dayal Pitambar (NJIT)* – Biomedical Engineering
Research: Relationship Between Brain Connectivity and Cerebral Blood Flow in Stroke Patients

Matthew Downey (NJIT) – Computer Science
Research: "Efficient Algorithms for Analyzing Cascading Failures in a Markovian Dependability Model"

Andrew Esteves (NJIT) – Biochemistry
Research: Engineering Bacillus subtilis spores to evolve G protein-coupled Receptors for Directed Evolution

Stephen Harris (NJIT) – Mechanical Engineering
Research: Manufacturing and Characterizing an Air-Breathing Fuel Cell

Rajan Jain (NJIT) – Bioinformtics
Research: Complete Genome Pipeline for Mapping and Viewing Short Reads

Justin Joseph (NJIT)* – Electrical Engineering
Research: SenVis Smartcane for the Blind and Visually Impaired

Monica Khattak (NJIT) – Biology
Research: Distribution of GABA and Glutamate in Weakly Electric Fish

Victoria Leybova (NJIT) – Chemical Engineering
Research: Boron-based reactive materials with biocidal combustion products

Melvin Mathew (NJIT) – Biology
Research: SenVis Smartcane for the Blind and Visually Impaired

Kevin Mcilmail (NJIT)* – Architecture
Research: "Malcolm Wells: [New Jersey's] Father of Modern Earth—Sheltered Architecture."

Shivank Mishra (NJIT) – Chemical Engineering
Research: Elementary, Fundamentals Based reaction Mechanism to Model Oxidation of C1 to C4 Sulfide Hydrocarbons under Combustion and Atmospheric Environments

Anmol Mittal (NJIT) – Biology
Research: Do motoneurons supply cross-inhibition in C. elegans locomotion circuit?

Josef Mohrenweiser (NJIT) – Mathematics
Research: Tracking Superparamagnetic Nanoparticles in Blood Flow

Sana Nasim (NJIT) – Biomedical Engineering
Research: An approach to mimic the fibrous protein in the extracellular matrix of articular cartilage via electrospinning

Oluwakorede Otetubi (NJIT) – Mechanical Engineering
Research: Modeling and Animation of Mechanisms used in Mechanical Design

John Palmieri (NJIT)* – Biomedical Engineering
Research: "Applications to Cancer treatment: The Determination of Young's Modulus for Microtubules Stabilized with Paclitaxel and Analysis of Vibrational Modes."

Sabrina Raia (NJIT) – Architecture
Research: Developing a New Eco-village Implementation Plan

Andrea Roeser (NJIT) – Biology/Math
Research: Decoding brain mechanisms for sexual signaling

Dhara Shah (NJIT) – Chemical Engineering
Research: Precipitation Reaction Experiment for the Chemical Engineering Student Laboratory

Jordan Sorg (NJIT) – Biomedical Engineering
Research: Integrating the Kinect, iARM, and Optitrack Motion Capture System into a Low-Cost TMS Stimulator Positioning System

Angelo Taranto (NJIT) – Physics
Research: Design, Fabrication, and Testing of a Multispectral Camera

Maya Woods (NJIT) – Biomedical Engineering
Research: Induced Pluripotent Stem Cell

Joseph Zaleski (NJIT) – Applied Math
Research: Mathematical Modeling of Daily Rhythms and Cardiac Arrhythmias

Lean Startup Accelerator Program

Mahmoud Alnsour (NJIT) – Biology
Research: Grunt Team

Fabio Arias (NJIT) – Interdisciplinary Design Studio—Honors College
Research: SenVis

Matthew Armanious (NJIT)** – Interdisciplinary Design Studio—Honors College
Research: QuickGraft

Sheryl Carlson (NJIT) – Interdisciplinary Design Studio—Honors College
Research: Koala Band

Jonathan Colella (NJIT) – School of Management
Research: Better Cloud Hosting & Concierge

Dena Elmesalamy (Rutgers) – Mechanical Engineering
Research: Elmaronic

Omar Elmesalamy (NJIT) – Biomedical Engineering
Research: Elmaronic

Sayali Kulkarni (NJIT)** – Interdisciplinary Design Studio—Honors College
Research: QuikGraft

Tamer Marshood (NJIT) – Mechanical Engineering
Research: Feeding by Reading

Stephen Morrison (NJIT) – Interdisciplinary Design Studio—Honors College
Research: Koala Band

Laura Osorno (NJIT) – Biomedical Engineering
Research: S&D: Science and Dermatology

Ashas Pathan (NJIT)** – Interdisciplinary Design Studio—Honors College
Research: QuikGraft

*Also participated in the Learn Startup Accelerator Program   ****Also participated in the TechQuest Innovation Program as Winner**   *****Also participated in the Biophysics SRP program**