

WHO ARE WE RECRUITING?

We are looking for undergraduate students in engineering and technology, especially Hispanic males and females who are interested in STEM fields.



MEET THE TEAM

Dr. Jitendra Tate-Associate Professor, Ingram School of Engineering, Texas State University-San Marcos
(Principal Investigator)

Dr. Dominick E. Fazarro-Associate Professor, Industrial Technology Program, The University of Texas at Tyler (Co-Principal Investigator)

Dr. Craig Hanks-Professor Department of Philosophy, Texas State University-San Marcos
(Co-Principal Investigator)

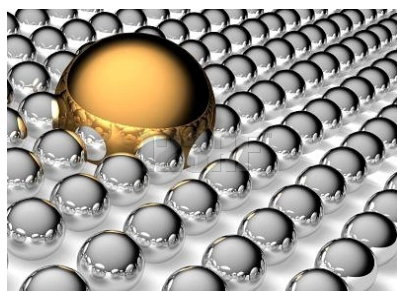
Mr. Satyajit Dutta- Adjunct Professor, Ingram School of Engineering, -Texas State University San Marcos
(Co-Principal Investigator)

SENIOR PERSONNEL

Dr. Walt Trybula-Adjunct Professor, Ingram School of Engineering and past Director, Nanomaterials Application Center, Texas State University-San Marcos

Dr. Robert McLean-Professor, Department of Biology, Texas State University-San Marcos

Dr. Fritz Allhoff-Associate Professor-Department of Philosophy, Western Michigan University



For more information, contact:

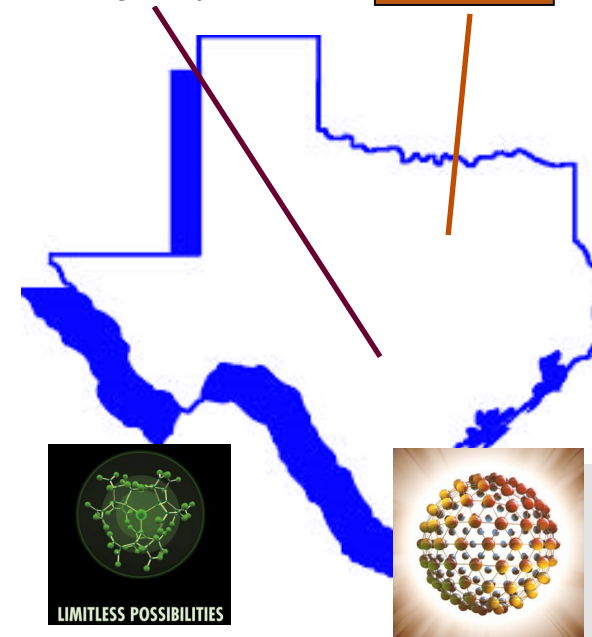
Dr. Jitendra Tate-Principal Investigator
Ingram School of Engineering-Texas State University-San Marcos
Jt31@txstate.edu

Dr. Dominick E. Fazarro-Co-Principal Investigator
Department of Human Resource Development and Technology
The University of Texas at Tyler
dfazarro@uttyler.edu

Dr. Walt Trybula-Senior Personnel
Ingram School of Engineering-Texas State University-San Marcos
W.trybula@txstate.edu

NanoTRA- Texas Regional Alliance to foster Nanotechnology Environment, Health, and Safety Awareness in tomorrow's Engineering and Technology Leaders

TEXAS STATE UNIVERSITY
The rising STAR of Texas



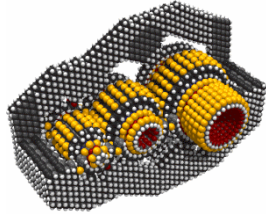
LIMITLESS POSSIBILITIES

Funded by
National Science Foundation
Nanotechnology Undergraduate
Education



PURPOSE

The purpose of the grant is to educate engineering undergraduate students in nanotechnology safety which includes societal, ethical, environment health, and safety issues.



COURSE STRUCTURE

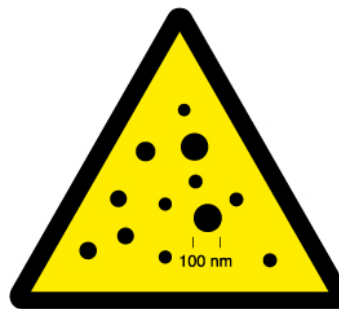
The course structure contains incorporating appropriate module in existing courses in engineering and technology curricula at Texas State University-San Marcos and full courses at The University of Texas at Tyler.

Course & Title
Texas State (Module/s Inserted)
US 1100: Seminar
PHIL 1320: Society and Ethics
IE/TECH 4380: Industrial Safety
ENGR 2300: Materials Engineering
MFGE 2332: Material Selection and Mfg Processes

Course & Title
IE 3330: Quality Engineering
MFGE/EE/TECH 4392/4394: Microelectronics Manufacturing I & II
MFGE 4367: Polymer Prop. and Proc.
MFGE 4399: Polymer Nanocomposites
MFGE 4363: Concurrent Process Engineering
EE 4391: Electrical Engineering Design
UT-Tyler (Full Courses)
TECH 2303: Introduction to Nanotechnology
TECH 4313: Principles of Risk Management of Nanoscale Materials

Course Material is Open Source and available at

<http://nsf-nue-nanotra.engineering.txstate.edu/>

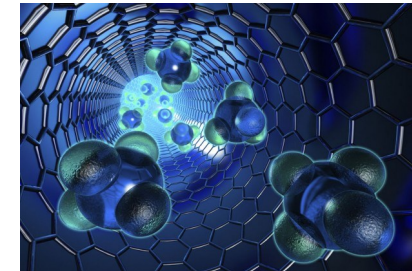


NANO HAZARD

Nanotechnology Advisory Council (NAC)

The NAC is group of highly experienced professionals in the area of nanotechnology safety. They will assist in improving the quality of the contents in each course.

- ◆ Dr. Christie Sayes, RTI International
- ◆ Dr. Greg Marshall-Chair, Department of Respiratory Care (Texas State University)
- ◆ Ms. Deb Newberry-Director NSF Nanolink
- ◆ Dr. Charles Geraci-NIOSH
- ◆ Ms. Barbara Foster, MIP



A UNIQUE PARTNERSHIP

Texas State University and The University of Texas at Tyler has teamed up to deliver innovative courses, face-to-face and online. These approaches are necessary to laterally teach content on nanotechnology safety to engineers and technologists.