Welcome to the 2012 STEM Graduate School and Internship Fair!
The UHD Scholars Academy STEM Graduate School and Internship Fair is an excellent opportunity for students within the College of Sciences and Technology to connect with prospective graduate schools and research/internship programs. Students are strongly encouraged to speak with as many different programs as possible to explore all available opportunities. Good luck and have fun!

**Almighty Ministries, Inc.**
Youth Development - Education

**Baylor College of Medicine**
Graduate Program in Molecular and Human Genetics
Human Genome Sequencing Center
PREP Program: Post-Bac Research/Education Program
SMART Program: Summer Undergraduate Research Training

**City of Houston – Houston Crime Laboratory**
C3 Texas (Campus to Community Coalition of Texas)

**Dallas Baptist University**
Graduate Programs

**Emory University**
Physics Graduate Program

**Kaplan Test Prep and Admissions**
Graduate Programs

**Ohio State University**
College of Arts and Sciences

**Sam Houston State University**
Office of Graduate Studies

**Southern Methodist University**
The Guildhall Office of Admissions

**Stephen F. Austin State University**
Environmental Sciences & Geology
Mathematics and Statistics
MSNS Chemistry / Biochemistry

**Texas A & M International University**
MS in Biology & MS in Mathematics & Education

**Texas A & M University – College Station**
College of Engineering
Nuclear Engineering and Health Physics

**Texas A & M University Health Science Center**
School of Rural Public Health

**Texas Chiropractic College**
Enrollment Management

**Texas Southern University**
Graduate School
Online Executive Masters of Public Administration

**Texas Tech University**
Graduate School

**Texas Tech University Health Sciences Center (HSC)**
School of Nursing

**Texas Tech University HSC – El Paso**
Graduate School of Biomedical Sciences

**Universidad Autonoma de Guadalajara**
School of Medicine

**University of Houston-Central**
College of Pharmacy
College of Technology Graduate Programs
Computer Science Graduate Program
Mathematics Graduate Program

**University of Houston-Downtown**
Masters of Arts in Teaching
M.S. in Professional Writing & Technical Communication
NSF Noyce Teacher Scholarship Programs

**University of Houston-Clear Lake**
School of Science and Computer Engineering

**University of Mary Hardin-Baylor**
Graduate School

**University of North Texas (UNT)**
College of Engineering
Toulouse Graduate School

**UNT Health Science Center at Fort Worth**
School of Public Health

**University of Texas at Austin**
Graduate School
McCombs School of Business - MS in Finance Program

**University of Texas at El Paso**
Graduate School

**University of Texas at San Antonio**
Graduate School

**University of Texas Health Science Center Houston**
School of Biomedical Informatics
School of Nursing
The Houston Laboratory and Population Sciences Training Program in Gene-Environment Interaction

**University of Texas Health Science Center at San Antonio**
Graduate School of Biomedical Sciences

**University of Texas Health Science Center at Tyler**
Occupational Health Sciences
Occupational & Environmental Health

**University of Texas – MD Anderson Cancer Center**
School of Health Professions

**University of Texas Medical Branch**
Biochemistry and Molecular Biology
Graduate School of Biomedical Sciences
School of Health Professions
School of Nursing

**University of Texas School of Public Health**
School of Health Profession

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8:30 - 9:15 am    Registration and Check-in
9:15 - 10:15 am   Student Poster Session and Breakfast Mixer
10:15 - 12:00 pm  Graduate School and Internship Fair

13th Annual Graduate School and Internship Fair
October 19, 2012   8:30 am – 12:00 pm    Room A300

Sponsored by: The Brown Foundation, Inc.; National Science Foundation (0728408, 0903948); and UH-Downtown.
Welcome to the 2012 Graduate School and Internship Fair!

The UHD Scholars Academy is pleased to feature scholarly undergraduate STEM research poster presentations. Please join us in this scholarly undertaking by visiting each poster, dialoguing with the student presenters about their project, and encouraging them through offering constructive considerations that can benefit them in their next phase of research.

Student Research Poster Session:

1 – Reihana Abdelmaksaud, Kimberlyn Garcia, “The Effects of Garlic Extracts + Acyclovir on the Suppression of the Herpes Simplex Virus Type I Replication in Vitro”
UHD Faculty Mentor: Dr. Tyra Montgomery, Dr. Qavi Hamida
Project Location: University of Houston-Downtown

2 – Rogelio Camacho, Yesenia Salazar, “The Effect of Heat on Granite Rocks for Nuclear Depository”
UHD Faculty Mentor: Dr. Janusz Grebowicz, Dr. Jorge Tito-Izquierdo
Project Location: University of Houston-Downtown

3 – Kaleigh Ceasar, “The Poetry Wizard”
UHD Faculty Mentor: Dr. Hong Lin
Project Location: University of Houston-Downtown

4 – Raymond Cherian, Sarah Syed, “Could Platystomus Millipedes Dilute their Risk of Predation by Aggregating?”
UHD Faculty Mentor: Dr. Barry Sullender
Project Location: Bocas Del Toro, Boca Del Drago, Panama

5 – Fatoumata Diallo, “Computational Studies of 1, 2 HOPO Chelating Ligands”
UHD Faculty Mentor: Dr. Maria Benavides
Project Location: University of Houston-Downtown

6 – Heather Fulkerson, “The Human Mucosal Response Against Staphylococcus aureus Virulence Factors”
Faculty Mentor: Dr. Bowden
Co-Author: Andrea Bordt, Jesse Dunkle, Heather Moor M.D, Eric L. Brown PhD, M. Gabriela Bowden PhD
Project Location: University Of Houston-Downtown

7 – Martha Cecilia Guerra, “Establishing Homology between Mammalian and Zebrafish Stratified Epithelium”
Faculty Mentor: Dr. Daniel Wagner
Co-Author: Dr. Daniel Wagner
Project Location: Rice University

UHD Faculty Mentor: Dr. David Wagner
Co-Author: Matthew Finifter, Adrian Mettler, Anne Edmundson, Emanuel Rivera
Project Location: University of California, Berkeley

9 – Harrison Kraft, “Exclusive Paternal Care and the Natural History of Platysedmus subovata”
UHD Faculty Mentor: Dr. Barry Sullender
Co-Author: Dr. Debbie Bush
Project Location: Bocas Del Toro, Panama

10 – Adolfo Lara, “Development of Novel Molecular Markers for Species-Level Identification of Sea Anemones (Cnidaria, Actiniaria)”
Faculty Mentor: Dr. Estefania Rodriguez, Dr. Mercer Burgler
Co-Author: Matt Erby
Project Location: The American Museum of Natural History, New York

11 – Milena Lobaina, “Inhibition of TK Negative HSV-1 Replication by Antiriral Agents from Single Clove Garlic in Vitro”
UHD Faculty Mentor: Dr. Tyra Montgomery, Dr. Qavi Hamida
Co-Authors: Issac Omuhambe, Dr. Tyra Montgomery, Dr. Qavi Hamida
Project Location: University of Houston-Downtown

12 – Aisha Mehmood, “Computational Calculations on Novel Plutonium Sequestering Agent”
Faculty Mentor: Dr. Maria Benavides
Co-Author: Dr. Maria Benavides
Project Location: University of Houston-Downtown

Faculty Mentors: Dr. Plamen Simeonov
Co-Author: Dr. Plamen Simeonov
Project Location: University of Houston-Downtown

14 – Vy Nguyen, “Brain Wave Analysis, Web Access”
Faculty Mentor: Dr. Hong Lin
Co-Author: Latpyya Smith, Lucino Flores, Qiang Guo, Troy Cartmill
Project Location: University of Houston – Downtown

15 – Owen Pate, “Preliminary Design of UHD Staff/ Faculty Parking Garage”
Faculty Mentor: Dr. Jorge A. Tito
Co-Author: Balkrishna Patel, Juan Castillo, Aaron Kimmel and Jeffrey Wagner
Project Location: University of Houston-Downtown

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One Main Street, 725-North; Houston TX 77002-1001
Phone: 713-222-5344; Fax: 713-223-5356; scholars@uhd.edu; www.uhd.edu/scholars
16 – Tilesh J. Patel, “Characterization of the Thermotropic Properties of Novel Catanionic Surfactants Derived from Quaternary Ammonium Surfactants and Dodecylbenzenesulfonate Existing as Room-Temperature Liquid Crystals”  
UHD Faculty Mentor: Dr. Robin Jose  
Co-Author: Troy A. Cather, Dr. Prodip K. Bhowmik, Dr. Hesook Han, Dr. Janusz Grebowicz  
Project Location: University of Houston-Downtown

17 – Tilesh J. Patel, Troy A. Cather “ Characterization of the Thermotropic Properties of Novel Catanionic Surfactants Derived from Quaternary Ammonium Surfactants and Bis(2-ethylhexl) sulfosuccinate Existing as Room-Temperature Liquid Crystals”  
UHD Faculty Mentor: Dr. Robin Jose  
Co-Author: Troy A. Cather, Dr. Prodip K. Bhowmik, Dr. Hesook Han, Dr. Janusz Grebowicz  
Project Location: University of Houston-Downtown

UHD Faculty Mentor: Robin Jose  
Co-Author: Paulina Filipczar, Maureen Arinyi  
Project Location: University of Houston-Downtown

19 – Angela Rosales, “Comparison between Greens Bayou Wetlands Mitigation Bank and Anahuac National Wildlife Refuge using Diatom Data to Show how IKE and the 2011 Drought Affected these Wetlands”  
UHD Faculty Mentor: Dr. Brad Hoge  
Co-Author: Dorothy Ringer-Sumner, Denise Igbineweka  
Project Location: University of Houston-Downtown

20 – Iris R. Silva - Obando, “Identification of FoxF1 Mutations Affecting Patients with Alveolar Capillary Dysplasia with Misalignment of Pulmonary Veins (ACD/MPV)”  
UHD Faculty Mentor: Dr. Partha Sen  
Project Location: Baylor College of Medicine Molecular Core Laboratory

21 – Dat Truong, “Nano Particle Nickel and Nickel Oxide-Carbon Composites for Novel Voltammetric Detection”  
Faculty Mentor: Dr. Mian Jiang  
Co-Author: Dr. Mian Jiang  
Project Location: University of Houston-Downtown

22 – Mau Truong Dim, “Formulational Properties of a Newly Developed Low Viscosity Diacrylate – Functional Epoxy-Based Oligomer”  
Faculty Mentor: Dr. Byron K. Christmas  
Co-Author: Dayna Spencer  
Project Location: University Of Houston-Downtown CARSR Lab

23 – Reyna Valdez, “Screening Novel Synthetic Compounds for their Cytotoxicity and Inhibition of Tubulin Polymerization”  
Faculty Mentor: Dr. Rachna Sadana  
Co-Author: Andrew Mark, Ania Jeszka, Paula Mazurek, Patrycja Juchniewicz  
Project Location: University Of Houston-Downtown

Faculty Mentor: Dr. Jeong – Mi Yoon, Dr. Volodymyr Hrynkiv, Dr. Lisa Morano  
Co-Author: Julie Nash, Wei Yang (Kevin) Wang  
Project Location: University Of Houston-Downtown