

## 2009 Undergraduate Student Summer Research Fellowships

Each grant list individual student researcher(s) with respective cooperating faculty member(s) in parenthesis.

### SCHOOL OF BUSINESS

- Andrew Friedle (Todd Nesbit) - \$1,200  
"The Causes and Consequences of a Strong Central Government on Fiscal Federalism"
- Eliska Repkova (Kenneth Louie) - \$1,200  
"What is the Relationship between Foreign Aid, Foreign Direct Investment and the Education of Women?"
- Derek Wagner (James Kurre) - \$1,200  
"Brain Drain of College Students in Erie"
- Jenna Zeyfang (Saad Andaleeb) - \$1,200  
"The Difference between French and American Restaurant Consumerism"

### SCHOOL OF ENGINEERING

- Jeffrey Beers (John Roth) - \$1,200  
"Design of a Double Point Incremental Forming Test Setup"
- Trevor Collins (John Roth) - \$1,200  
"Examination of the Effects of Direct Current Assisted Die Forming on Magnesium"
- Jeff Dennington (John Roth) - \$1,200  
"Friction Welding Improvements through the Application of Direct Current"
- Jacob Dolecki (Jun Zhou and John Roth) - \$1,200  
"Electrically Enhanced Friction Stir Welding"
- Jeffrey Erdman (William Lasher) - \$1,200  
"Assessing the Wind-Heel Angle Relationship of Traditionally Rigged Sailing Vessels"
- Andrew Faivre (Yi Wu) - \$1,200  
"Transient Model of a Small Centrifugal Pump in Different Viscosity"
- Nicole Frisbee (John Roth) - \$1,200  
"Electrically Assisted Manufacturing Process Effects on Microstructure of Magnesium and Aluminum Alloys"
- Nathan Hansen (Oladipo Onipede) - \$1,200  
"Dynamic and Static Modeling of Micro-Beams"

- Justin Milner (John Roth) - \$1,200  
"Construction and Forming of Double Point Incremental Forming"
- Nicholas Murray (Jun Zhou and John Roth) - \$1,200  
"Modeling the Effects of an Applied DC Current During Friction Stir Welding"
- Derek Suen (John Roth) - \$1,200  
"Friction Weld Efficiency Enhancement through the Application of a Direct Electric Current"
- Michael Wargo (Yi Wu) - \$1,200  
"Steady State Test of a Small Centrifugal Pump in Different Viscosity"

### **SCHOOL OF HUMANITIES AND SOCIAL SCIENCES**

- Mohammed Al-Bidhawi (Leigh-Ann Bedal) - \$1,200  
"The Petra Garden and Pool Complex Excavation (Jordan)"
- Erin Dyne (Dawn Blasko) - \$1,200  
"The Influence of Personality Traits on Academic Performance"
- Christine Giuliano, Chris Brown, Dan Hido, Beth Bimber, Zach Goncz, and Matt Shuster (John Gamble) - \$3,000  
"Comprehensive Statistical Database of Multilateral Treaties (CSDMT) Project"
- Lindsay Hilldorfer (Leigh-Ann Bedal) - \$1,200  
"The Petra Garden and Pool Complex Excavation (Jordan)"
- Janice Jerome and Cara Jones (Victoria Kazmerski) - \$2,400  
"School Features and their Influence on Learning: Taking a Look at Green Kids"
- Kara Sementilli and Kristin Stranahan (Dawn Blasko) - \$2,355  
"Effects of Arousal on Explicit Programming and Brand Recall"
- Danielle Wilson and Jesse Eisert (Victoria Kazmerski) - \$2,400  
"Mind and Body: Embodied Cognition and its Effects on Performance"
- Danielle Young (Dawn Blasko) - \$1,200  
"Applying the VIZ Project to Embodied Cognition"

### **SCHOOL OF SCIENCE**

- Richard Anderson and Jack Horst (Meng Su) - \$2,400  
"Multiscale Analysis of Document Corpora and Handwritten Characters using Diffusion Methods"
- Kellie Baker (James Warren Jr.) - \$1,200  
"Biological Illustrations Relating to the Animal Development Laboratory and Research Conducted Using *Danio rerio* at Penn State Erie"
- William Boylan (Martin Kociolek) - \$1,200  
"Synthesis of Flavanoid Benzisoxazole-*N*-Oxides"

- Jessica Burnett (Beth Potter) - \$1,200  
"Exploring How N-glycans Mediate Apical Delivery in Polarized Epithelial Cells"
- Brianne Campbell (Heather Jones) - \$1,200  
"Co-Assembly of the KCNN Family of Proteins: Co-Immunoprecipitation and FRET"
- Casey Fye (Jason Bennett) - \$1,200  
"Development of Mn-Based Porphyrin Electrocatalysts for Selective Detection of Nitric Oxide"
- Nicole Gall (Bruce Wittmershaus) - \$1,200  
"Size Dependence of Metal-Enhanced Fluorescence from Dye-Coated Silver Nanoparticles"
- Olivia Hoermann (Martin Kociolek) - \$1,200  
"Synthesis of Novel Ring Derivatives of 3,5-Diphenylisoxazole"
- Melanie Knowlton (Michael Justik) - \$1,200  
"Heterocycles Synthesized from Pyridine *N*-Oxide and Alkynyliodonium Salts"
- Jeffrey McCausland (G. William Baxter) - \$1,200  
"Jamming of Low-Aspect Ratio Granular Media"
- Kolby McIntyre (Margaret Voss) - \$1,200  
"A Survey of Farm Management Techniques and the Potential for Control of Parasitic Nematodes in Horses"
- Raúl Montejo (Joseph Previte and Michelle Previte) - \$1,200  
"Application of Vertex Replacement Rules to the Horospheres of CW Complexes"
- Christian Mosebach (Beth Potter and Margaret Voss) - \$1,200  
"Identification of Bacterial Isolates from Nests of Three Native American Songbirds"
- Julie Ober, Moriah Johngrass, and David Stull (James Warren Jr.) - \$3,600  
"The Generation and Raising of Mutant and Transgenic Lines of Zebrafish (*Danio rerio*)"
- James Pander (Jason Bennett) - \$1,200  
"Assessing the Electrochemical Activity of Nickel-Based Porphyrins towards the Oxidation of NO, CO, and H<sub>2</sub>S"
- Matthew Ritz (Anthony Foyle and Michael Naber) - \$1,200  
"Hydrogeologic Characterization of an Upland Forest Wetland, Penn State Behrend Campus"
- Marcie Ryhal (Carley Gwin) - \$1,193  
"Mitochondrial DNA Comparisons of Spotted Salamander Populations at Penn State Erie, The Behrend College"
- Mark Towner (Heather Jones) - \$1,200  
"Effects of Chaperone Inhibitors of hIK1 and SK3 Trafficking and Expression"

- Michelle Wunderley, Andrew Stauffer, and Robert Aeppli (Michael Naber and Anthony Foyle) - \$3,600  
"Merging Previous Research Projects Forming a Geographic Information System (GIS) of Penn State Behrend; Including the Arboretum, Wintergreen Gorge, and the Buildings and Pathways on Campus"
- Kathleen Yungwirth (Alan Jircitano) - \$1,200  
"Synthesis and Structural Characterization of Photochromic Platinum (II) Complexes"

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