

## 2002 Undergraduate Student Summer Research Fellowships

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

### SCHOOL OF BUSINESS

- Sarah L. Campbell (Margaret Thoms and Jana Goodrich) - \$1,180  
"Analysis of Recruiting Websites of Fortune 100 Companies to Determine Best Practices"
- Timothy Gigliotti (James Kurre) - \$2,200  
"Penn State Erie's Role in Brain Drain or Brain Gain in Erie County"
- Travis Gonser (James Kurre) - \$1,200  
"Productivity and Wages in Erie's Industries"
- Michael Hammill (James Kurre) - \$1,200  
"Productivity Growth in Erie Manufacturing through Time"
- Katharine J. Newcombe (James Kurre) - \$1,200  
"Does a Focus on Arts and Entertainment Help a City Grow?"

### SCHOOL OF ENGINEERING AND ENGINEERING TECHNOLOGY

- Brent A. Craven (John Roth) - \$1,200  
"Analysis and Diagnostic of Metal Removal Processes using Accelerometers and Force Dynamometers"
- Chan Min (Chris Coulston) - \$1,200  
"A Steiner Minimal Tree Problem in a Non-Uniform Metric"
- Kenton White (William Lasher) - \$1,200  
"Experimental Testing of Force Coefficients for Spinnakers"

### SCHOOL OF ENGINEERING AND ENGINEERING TECHNOLOGY and SCHOOL OF HUMANITIES AND SOCIAL SCIENCES

- Amy Johnson, Jill Johnson, Kathleen Scarpino, Nicole Harlan, Craig Berlehner, Holly Blasko, Jacob Cornwell, Amanda Neely, Brooke Springer, Michael Harter, Evan Fecko, and Stephanie Ames (Kathy Holiday-Darr, Dawn Blasko, Michael Lobaugh, and John Kerwin) - \$15,600  
"An Interdisciplinary Project for the Development of Educational Modules for the Use of Teaching Spatial Skills"

## SCHOOL OF HUMANITIES AND SOCIAL SCIENCES

- David Beichner, Aimee Peterson, and Guy Reschenthaler (John Gamble) - \$3,600  
"Comprehensive Database of Multilateral Treaties (CDMT) – Phase II"
- Jacob Cornwell (Carla Torgerson, Dawn Blasko, and Victoria Kazmerski) - \$1,200  
"Instructional Development of an Observational Research Tutorial"
- Banchiamlack Dessalegn (Dawn Blasko and Victoria Kazmerski) - \$1,200  
"The Bilingual Brain: Processing Code-Switched Metaphors"
- Nicole Dirling (John Gamble) - \$1,200  
"The Mass Media and International Law: (Benign) Neglect, Distortion, or Equity"
- Nicole J. Johns (Chet Wolford) - \$1,200  
"Field Study: 30 Days of Exploring America"
- Alejandra Marroquin (Dawn Blasko and Victoria Kazmerski) - \$1,000  
"Emotionality and Language in Spanish-English Bilinguals"
- Kathleen E. Perry and Kathryn Przepyszny (Derek Mace) - \$2,400  
"Computer Based Investigation of the Role of Gender in Spatial Abilities"
- Jeff Phillips (Sean Dougherty) - \$650  
"Unearthing the Language along the Lake: Contemporary Poetry from Erie, PA"
- Heather A. Slomski (Sean Dougherty) - \$1,200  
"Research in Sweden"
- Brooke Springer (Dawn Blasko and Victoria Kazmerski) - \$1,200  
"Creative Language Processing"

## SCHOOL OF SCIENCE

- Jennifer Adams (Pamela Silver) - \$1,200  
"The Effects of Different Leaf Pack Composition on Chironomid Midges"
- Catherine Brown (Pamela Silver) - \$1,180  
"*Chironomus riparius* Habitat Patch Preference"
- Jestin Carlson (James Warren, Jr.) - \$1,200  
"Investigating the Role of Folate Metabolism in Zebrafish Heart Development"
- Justin Crepp (Darren Williams) - \$1,200  
"Lyapounov Timescales"
- Andrea Drayer (Pamela Silver) - \$1,200  
"Assessment of Breeding Amphibians and Species Diversity in Natural Temporary Wetlands versus Recently Constructed Wetland Mitigation Sites"
- Ian D. Eccles (Meng Su) - \$780  
"An Investigation of the C# Programming Language and the Visual Studio.NET"
- Melissa Feile (Michael Campbell) - \$1,200  
"The Effect Heavy Metals Have on *Arabidopsis thaliana* Gene Statement"

- Michelle Fisher (Pamela Silver) - \$1,200  
"Assessment of Growth of *Poa pratensis* due to Fertilizer Application and Subsequent Environmental Impacts"
- Stacey Gorniak (Blair Tuttle) - \$1,200  
"Active Learning Curriculum for the Physics of Music"
- Melinda Hanes (Michael Campbell) - \$200  
"Investigating Branched Chain Amino Acid Metabolism by Analyzing *Arabidopsis* bcac Mutants"
- Matthew L. Hillwig (Michael Campbell) - \$1,200  
"Comparison of *Parnassia glauca* to Known Plant Genomes"
- Chayanant Hongfa (Martin Kociolek) - \$1,200  
"Development of Methods for the Synthesis of Verbalactone"
- Kyle Kalbarczyk (Martin Kociolek) - \$1,200  
"Development of Methods for the Synthesis of Verbalactone and Analogs of Verbalactone"
- Jennifer M. Kuntz (Thomas Spudich) - \$1,200  
"The Characterization and Construction of an Atomic Absorption Spectrometer Using a Digital Micro-Mirror Array"
- Gretchen Lokey (Bruce Wittmershaus) - \$1,200  
"Dye-Doping of Clear Polymer Plates Through the Use of Solvents in the Creation of Single Dye and Two-Dye Combination Solutions Used in the Creation of Luminescent Solar Concentrators"
- Molly E. Means (James Warren, Jr.) - \$1,200  
"Analysis of the Role of the Zebrafish (*Danio rerio*) Necdin Gene in Embryogenesis"
- Nita Mulyawan (Thomas Spudich) - \$1,200  
"The Characterization and Use of an Acoustic-Optic Background Correction System for Atomic Emission Spectrometry"
- Norsez Orankijanan (Carla Torgerson, Boon Ong, and Richard Stankewitz) - \$1,170  
"Algebra Tutorial for Calculus Students"
- Sean Rafferty (Pamela Silver) - \$1,140  
"Selective Feeding of *Dreissena polymorpha* (Zebra Mussel) on Phytoplankton Assemblages"
- Michelle Rizzo (Tracy Halmi) - \$1,200  
"Research Project Incorporated into Organic Chemistry Lab"
- Dana Sailer (Lisa Mangel) - \$1,000  
"Avian Population/Habitat: Assessment for the Lake Pleasant Wetlands"
- John Shearer (Bruce Wittmershaus) - \$1,200  
"Dye Doping Thin Polymer Films for Use as Luminescent Solar Concentrators"

- Christopher C. Smith (David Hunnicutt) - \$1,200  
"Identification of Genes Involved in Gliding-motility in *Flavobacterium johnsonae* Using Transposon Mutagenesis"
- Joshua A. Smith (David Hunnicutt) - \$1,200  
"Generation of Gliding Motility-Deficient Mutants in *Flavobacterium johnsoniae*"
- Patrick Stephenson (Joseph Previte) - \$1,200  
"Three-Species Population Models"
- Amanda M. Svitek (James Warren, Jr.) - \$1,200  
"Analysis of Folate Metabolism and its Effects on Neural Tube Development in the Early Zebrafish (*Danio rerio*) Embryo"
- Charles Utz (Thomas Spudich) - \$1,200  
"The Characterization and Construction of an Atomic Absorption Spectrometer Using a Digital Micro-Mirror Array"

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