

Small Classrooms
Individual Attention



Department of Physics – Fayetteville Home of the Razorbacks

Low Cost of Living
Low Crime Rate

\$3,500,000

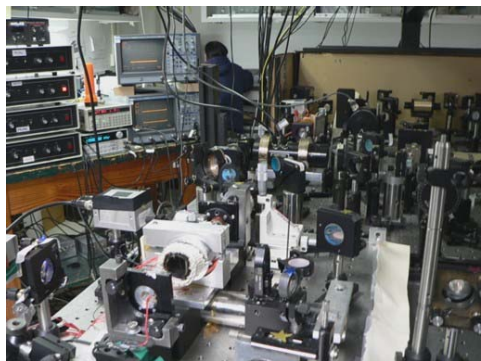
Annual Departmental Research Budget,

\$1,000

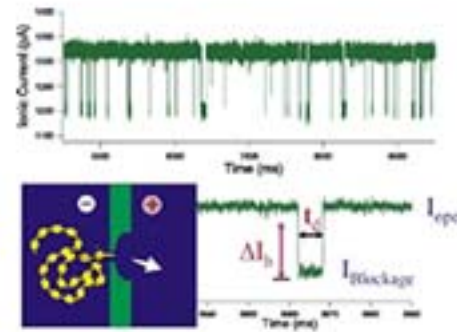
Annual Per Student Travel Budget

Quantum & Non-Linear Optics

Bio-Physics



Quantum Optics
Quantum Information
Quantum Computing
Photon Statistics
Non-Linear Optics
Optical Squeezing
Photothermal Spectra
Cavity QED



Bio-Physics

DNA Sequencing
Single DNA Detection
Solid State Nanopore
Neural Computation
Biological Labeling
Nanofabrication
Optical-Bio-
Manipulation
Bio-Contamination
Detection

Faculty: Gea-Banacloche, Gupta, Salamo, Singh, Vyas, Xiao

Faculty: Fu, Gross, Li, Oliver, Salamo, Singh, Xiao

**Ph.D. scholarships up to \$34,500/12 mo.
www.uark.edu/depts/physics**

We welcome outstanding students with a Bachelors degree in physics to apply.

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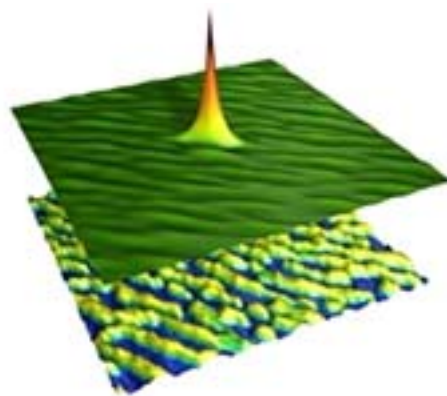
\$34,500

Annual Student Stipend with DDF,

\$24,500

Annual Student Stipend with DAF

Computational/Theoretical Physics



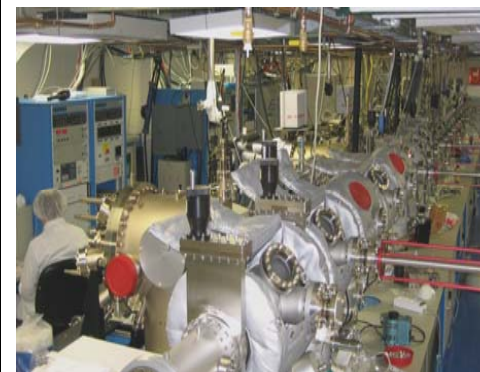
Computational/
Theoretical Physics

Density Functional
Calculations
Piezo/Ferroelectric
Physics
Semiconductor
Nanostructures
Molecular Spectra
Many-Body Physics
Optical Properties
Phase Transitions

**Faculty: Bellaiche, Fu, Gea-Banacloche,
Harter, Lieber, Vyas**

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Condensed Matter/Nanoscience



Arkansas MBE/STM facility

Molecular Beam
Epitaxy
Scanning Tunneling
Microscopy
Quantum Dots
Spintronics
II-VI and III-V
Materials
Optical Properties

**Faculty: Bellaiche, Chakhalian, Fu, Gea-
Banacloche, Gross, Li, Oliver, Salamo,
Thibado, Vyas, Xiao**

**Masters programs also available in
Astronomy and Physics Education.**