Why should you consider this REU site?

✓ Summer research at a top chemical engineering department
✓ Stimulating research environment
✓ Broad variety of cutting-edge research projects
✓ Exciting location close to Baltimore, Delaware beaches, Philadelphia
✓ On-campus housing provided
✓ Competitive stipend of $4,600
✓ Travel allowance of up to $600

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NSF-REU Summer Research

PROFILE
This NSF-REU site provides a unique summer research experience in energy-related research topics. Research in alternative energies is a key theme in engineering and will remain at the top of national research priorities for quite some time. The chemical engineering profession is in an exceptional position to tackle the energy-related challenges of the 21st century.

Faculty members in energy-related research areas, ranging from heterogeneous catalysis to novel nanomaterials for energy reduction, offer exciting projects for the participants.

We also offer visits to local companies involved in energy-related research (fuel cells, hydrocarbon processing, biofuels) and to energy research facilities on campus as well as brown bag lunches, informal seminars, poster sessions, and many social activities.

FACULTY PARTICIPANTS
- Thomas H. Epps, III (Director)
- Jochen A. Lauterbach (Director)
- Antony N. Beris
- Douglas J. Buttrey
- Jingguang G. Chen
- Eric M. Furst
- Michael E. Mackay
- Annette D. Shine
- Norman J. Wagner
- Richard P. Wool

RESEARCH PROJECTS
This REU site offers a choice of exciting research projects in the following energy-related areas:
- Biomass conversion to fuels
- Fuel cell materials
- Hydrogen generation and storage
- Novel catalytic materials
- Modeling of drag reducing agents
- Nanostructured conducting membranes
- Materials for enhanced solar energy collection
- Directed self-assembly of photonic nanomaterials

STUDENT ACTIVITIES
Day Trips:
- GE Solar
- Air Liquide
- ExxonMobil
- DuPont

Workshops:
- Communication and Presentation Skills
- Ethics
- Solar Hydrogen IGERT Conference
- Brown Bag Lunches with Graduate Students
- Research Overviews
- Experiences at UD

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