

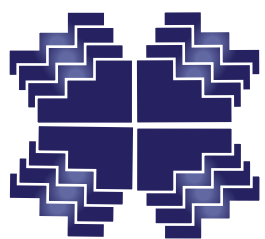
# APPLY NOW FOR FALL 2009

## UT IGERT fellowships *for U.S. Citizens or permanent residents* IN SUSTAINABLE ENERGY

Our world faces an impending global energy/climate crisis that will be the defining challenge for this generation of engineers and scientists. For example the search for alternative fuels that will power the future and mitigate human effects on the environment is an extraordinarily complicated task, requiring an interdisciplinary training in which one has expertise in molecular biology to modify algae to produce hydrogen from sunlight or expertise in chemical engineering in order to design nanostructured materials to store and convert hydrogen to electricity. However, expertise in one field is not enough. To solve the problem, engineers and scientists must be conversant in all of the fields relevant to sustainable energy production.



The STAIR program at the University of Tennessee is a NSF sponsored IGERT (Integrative Graduate Education and Research Training) grant. It offers a novel, interdisciplinary curriculum, with faculty from molecular biology, chemistry and three engineering departments. It also offers the opportunity to participate in state-of-the art research in **1) Bio-Energy Production, 2) Materials Development For Energy storage, and 3) Materials Development For Energy conversion.**



### STAIR

Sustainable Technology through  
Advanced Interdisciplinary Research

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The STAIR program provides a valuable PhD degree in one of five disciplines:

**MOLECULAR BIOLOGY**  
**CHEMICAL/BIOMOLECULAR ENGINEERING**  
**CHEMISTRY**  
**ENVIRONMENTAL ENGINEERING**  
**MATERIALS SCIENCE AND ENGINEERING**

with the broad background in all fields associated with sustainable technology.

Fall 2009 Research Fellowships are currently available. A Fellow in the STAIR program receives a stipend of \$30,000 per year, plus allowances for tuition, health insurance, travel to professional conferences and materials and supplies.

<http://stair.utk.edu>  
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