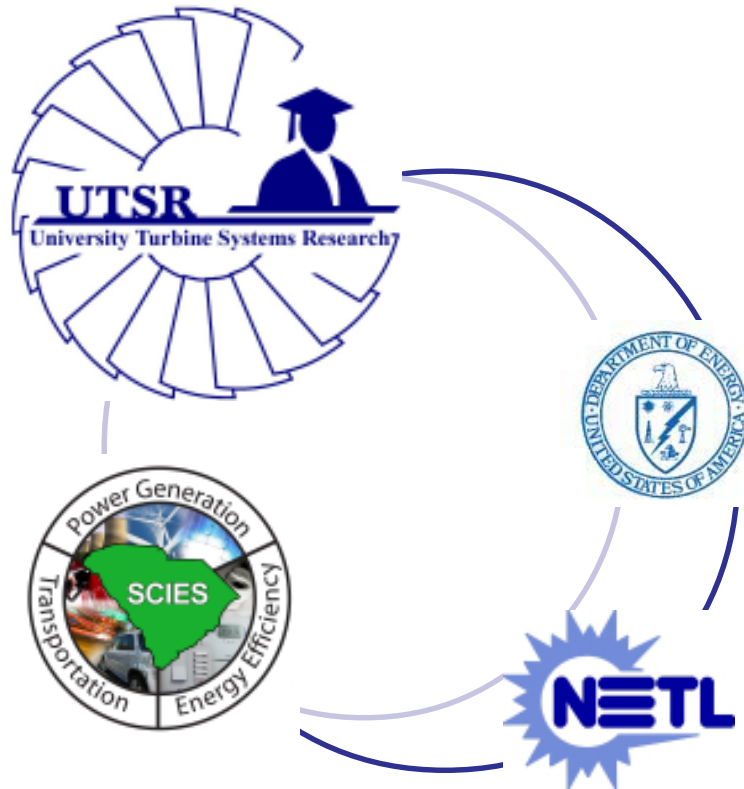


# Gas Turbine Industrial Fellowship Program



## 2009 Fellowship Application

**Applications Due: February 27, 2009**

**Sponsored by:**

University Turbine Systems Research Program  
South Carolina Institute for Energy Studies at Clemson University  
U.S. Department of Energy/National Energy Technology Laboratory  
[www.clemson.edu/scies/UTSR/UTSRStudentFellows.htm](http://www.clemson.edu/scies/UTSR/UTSRStudentFellows.htm)

# UTSR Gas Turbine Industrial Fellowship Program

## Program Description

The UTSR program is performing cutting edge research for the next generation of industrial gas turbines to enhance US energy security and provide a cleaner environment. The Gas Turbine Industrial Fellowship (GTIF) Program is a key part of the UTSR effort. GTIF provides undergraduate and graduate level science and engineering students with the opportunity to conduct research, engineering and design projects at leading gas turbine industry sponsors (listed below).

Under the guidance of industry experts, selected students will complete a 10-12 week summer project in a variety of areas that include heat transfer, aerodynamics, combustion, thermodynamics, advanced materials and coatings, design, manufacturing or test and evaluation. Students will prepare a final report and presentation on their project for distribution to the industry sponsors and posting on the UTSR website. GTIF provides distinct benefits for anyone considering employment in the gas turbine industry or a related field.

## 2009 Industry Sponsors and Fellowship Locations

<b>Clean Energy Systems</b>	Rancho Cordova, CA Advanced Energy Systems
<b>EPRI</b>	Charlotte, NC or Palo Alto, CA Utility Research and Development
<b>General Electric Company</b>	Schenectady, NY / Greenville, SC Gas Turbine Manufacturer
<b>Ingersoll Rand Energy Systems</b>	Portsmouth, NH Microturbine Engineering and Operations Facility
<b>Parker Hannifin</b>	Mentor, OH Gas Turbine Fuel Systems Division
<b>Pratt &amp; Whitney</b>	East Hartford, CT Gas Turbine Manufacturer
<b>Precision Combustion, Inc.</b>	North Haven, CT Combustion Technology Supplier
<b>Siemens Power Generation, Inc.</b>	Orlando, FL Gas Turbine Manufacturer
<b>Solar Turbines, Inc.</b>	San Diego, CA Gas Turbine Manufacturer
<b>Woodward FST</b>	Greenville, SC Manufacturer of Gas Turbine Control Systems, Fuel Valves and Air Valves

## Eligibility

The GTIF program is open to graduate and undergraduate engineering and science students. Undergraduates must have completed their junior year by June 2009. Applicants must be a US citizen or permanent resident alien and provide proof of citizenship or alien status with their application.

## Salary and Other Benefits

Fellows are paid bi-weekly at a rate that is based on their level of academic achievement. Current salary levels are:

- \$1000/week for applicants that are enrolled in a PhD program and have completed at least 4 semesters or 40 hours of graduate level courses
- \$900/week for applicants that have completed at least 2 semesters or 20 hours of graduate level courses
- \$800/week for applicants that have received their BS degree
- \$700/week for applicants that have completed their junior year and will receive their BS degree no later than June 2010

In addition, \$1300 will be provided to offset round-trip travel and relocation expenses to the sponsoring company's location, where applicable.

## Application Requirements

In addition to submitting your application via email to [kafair@clemson.edu](mailto:kafair@clemson.edu), you must provide the following information:

### Proof of Eligibility

- U.S. Citizens: Provide a copy of your social security card or birth certificate via email to [kafair@clemson.edu](mailto:kafair@clemson.edu).
- Resident Aliens: Provide a copy of your permanent resident alien card via email to [kafair@clemson.edu](mailto:kafair@clemson.edu).

Official Transcript - Please have your University send an official transcript of your grades to **Kim Davenport, Clemson University, South Carolina Institute for Energy Studies, 400 Klugh Avenue, 200 Dillard Building, Clemson, SC 29634-5712.**

## Selection Criteria

Selections will be made on a competitive basis by the South Carolina Institute for Energy Studies. The applicant's selection will be based on academic record, aptitude and interest in the field of gas turbines or related technologies and the references provided.

A maximum of 14 fellowships are anticipated this year. To increase the likelihood of your selection, you should indicate the maximum possible flexibility in the sponsoring companies that you are willing to work for on your application.

The actual number of fellowships awarded is at the sole discretion of the South Carolina Institute for Energy Studies and their decisions are final.

# APPLICATION FORM

Visit our website for additional program information and to view complete application requirements and submission details.  
[www.clemson.edu/scies/UTSR/UTSRStudentFellows.htm](http://www.clemson.edu/scies/UTSR/UTSRStudentFellows.htm)

## Academic Status as of June 2009: (check only one)

- enrolled in a PhD program and have completed at least 4 semesters or 40 hours of graduate level courses
- completed at least 2 semesters or 20 hours of graduate level courses
- received BS degree
- completed junior year and will receive BS degree no later than June 2010

Cumulative GPA:

Next Degree Date:  Degree:

## Period of Availability:

(start date)  (end date)  (total # of weeks)

## Applicant Information:

Name

College or University Name

Current Address

City  State  Zip

Phone  Email

Permanent Address

City  State  Zip

Phone

### Equal Opportunity Policy

It is the policy of the South Carolina Institute for Energy Studies to recruit and select participants without regard to race, age, gender, religion, color, national origin, mental or physical disability, or special disabled or Vietnam Era veteran status.

**Education:** (begin with current and list all colleges and universities attended)

College/University	Dates Attended	Major	Degree (Expected)

**Computer Languages:** list computer languages with which you are familiar and your level proficiency (excellent - fair)

Computer Language	Proficiency

**Employment:** (begin with most recent employer)

Employer	Dated Employed	Position/Rank

Nature of Work

Employer	Dated Employed	Position/Rank

Nature of Work

Employer	Dated Employed	Position/Rank

Nature of Work

Employer	Dated Employed	Position/Rank

Nature of Work

**Academic Honors or Awards:**

**Company Preference:** Indicate below, in order of preference, the Industrial Fellowship Sponsors you would consider (to maximize your chance of being selected, indicate "ALL" in #4 choice).

	#1 Choice
	#2 Choice
	#3 Choice
	#4 Choice

**Research Area:** Rank your order of preference for the areas that you wish to be involved. (1-6)

	Aerodynamics/Heat Transfer
	Combustion
	Materials
	Design
	Manufacturing
	Test and Evaluation

**References:** List two engineering references (name, affiliation and email) who you have notified that we will contact for a letter of recommendation.

Name	Affiliation	Email

**Interests and Objectives:** Provide a description of research/engineering interests and career objectives.

**By submitting your application via email for the 2009 Gas Turbine Industrial Fellowship Program, you are certifying that all the information entered in this form and provided as proof for eligibility is valid and true to the best of your knowledge.**