AATCC Foundation
Provides Student Research Support Grants

The AATCC Foundation Student Research Support Program is a grant program supported by the AATCC Foundation Inc. to encourage student research in textile chemistry and related fields important to the textile industry. Award recipients are selected by a research review board and grants range from $500 to $4,000, depending on a project’s significance to the textile industry. The AATCC Foundation Committee on Research is interested in work related to test method development, evaluation of textile performance in actual use situations, and correlations between these two. Funding priority will be given to projects that involve laboratory and end-use correlations studies, wet processing research, and other current topics that have been identified by the Foundation; however, consideration will be given to supporting projects in other research areas that are within the scope of the Foundation. Research projects may result in presentations at technical programs or publication in scientific journals because communication of results is an important aspect of the research process.

Grants awarded in 2005 included:
- Evaluation of Processes that Affect Dimensional Change when Converting a Fabric into a Garment: A Fundamental Study; Analysis of Products from Degradation of Textile Dyes by Fe-TAML Catalysts and Hydrogen Peroxide; Studies on Flame Retardants for Polyester Fiber Fabrics; Investigation of the Chemical Nature of Alkaline Scouring and the Effect on Seed Coat Fragments; and Factors that Influence the Microbial Transfer from Carpets.
- Possible research topics for future awards are:
  - evaluation of laundering processes that affect dimensional change
  - correlation between hand wash procedures and hand wash cycles on washing machines
  - database of near-infrared spectra of traditional and innovative fibers
  - measurement and assessment of hand properties
  - effects of detergents on the ultraviolet protection factor of ultraviolet protective fabrics
  - flame-retardant treatment exemptions in camping tents
  - effects of exhausting flame-retardant chemicals into fibers
  - low melting temperature face fibers in carpet
  - innovative textile chemical foam applications
  - environmentally friendly dry cleaning processes
  - treatment of nanoparticle-containing wastewater
  - effects of consumer softeners on textile flammability, performance apparel, and rain- and water-repellant apparel
  - comparisons of powder and liquid detergent’s effects on physical and colorfastness properties
  - abrasion and pilling methods
  - water-repellant finishing chemicals on untreated fabrics
  - “user friendly” statistical programs for analyzing data from inter-laboratory studies
  - non-toxic, non-flammable solvents for solvent extractions
  - enzymes to remove motes from cotton fabrics without caustic soda
  - sequestrant chemistries (phosphonates, polyacrylates, car- boxylated or phosphated surfactants) for performance
  - mill-friendly, low-temperature bleach activators

The application deadline for 2006 is September 30, 2006.

AATCC Foundation Inc. is a public charitable organization that encourages textile research, education, and scholarships, and facilitates the interchange of scientific and technical knowledge for the general public. It also is interested in the academic and professional growth of individuals interested in textile science. For more information about submitting a proposal, contact Program Chair Yiqi Yang, University of Nebraska-Lincoln, 226 HE Building, Lincoln, NE 68583-0802, USA; telephone +1 402 472 5197; e-mail yyang2@unl.edu or download a proposal application form at: www.aatcc.org.

While it’s easy to see that there are numerous worthy projects, the Foundation continually faces the difficult challenge of finding enough funds to support each one. The Foundation needs the continued generosity of both individuals and companies to fund these projects. Companies may benefit by funding projects from the list that support their own work. To support your Foundation, contact Perry Grady, AATCC Director of Business Development, P.O. Box 12215 or One Davis Drive, Research Triangle Park, NC, 27709-2215, USA; telephone +1 919 414 9260; e-mail gradyp@aatcc.org.

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