

Research A&T

DIVISION OF RESEARCH & ECONOMIC DEVELOPMENT
NORTH CAROLINA A&T STATE UNIVERSITY
EDWARD B. FORT INTERDISCIPLINARY RESEARCH CENTER

EDITOR'S NOTE:

This is the tenth in a series of stories featuring
University Approved Centers.

Developing Composite Technology...

UPCOMING EVENTS

**Funding
Opportunities and
Proposal Writing Tips
Sponsored by:
The NC
Biotechnology Center**

**October 14, 2008
410 Fort IRC
9 a.m.-11 a.m.**

**For more information
contact The Office of
Research Services at
(336) 334-7995.**



Established in 1988, the Center for Composite Material Research's (CCMR) purpose is to develop polymer based composite materials technology for traditional and non-traditional engineering applications. It also provides quality education and training to students and staff at A&T, other universities in the UNC system and other minority institutions within the country. "CCMR brings people togetherOur activities are diverse and not related to simply one area of research," said Dr. Kunigal Shivakumar, Research Professor and Director of the Center for Composite Material Research.

Polymeric composite research includes three laboratories: processing, modeling and multi-disciplinary applications, and testing and evaluation. The focus of the processing laboratory is the development of innovative materials and processing techniques for aerospace, ship, and civil infrastructure applications. The modeling and multi-disciplinary applications laboratory develops analysis methods, predictive methodology, design guidelines, and conducts trade studies. The testing and evaluation laboratory cultivates test methods, develops a material database and mechanics based fracture and life prediction models.

Currently, CCMR is working on several projects including the development of materials, concepts, and design concepts of structural frames for aircrafts, spacecrafts and

ships. This development also has armored tank applications. Another ongoing project for CCMR is to create an ultra light-weight material that will mimic the strength, resistance and virtual weightlessness of a dragonfly wing. The development of these wings is a piece of a larger project geared toward creating mechanical insects. The intent is to use these insects to gain information by surveying areas before any human presence.

CCMR is made up of five Ph.D. researchers and 10 Ph.D. students.



*Dr. Kunigal Shivakumar,
Director and Research Professor,
Center for Composite Material Research*

NCA&T, Second UNC School to Implement RAMSeS



Student interns from the Summer Undergraduate Research Experience and fellows from the Summer Faculty Fellows Program presented the results of their work at a wrap-up program.

Research Administration Management System & eSubmission (RAMSeS), a new electronic research administration system, is now being used at NCA&T. RAMSeS@ is administered by the Division of Research and Economic Development (DORED) and is a research proposal and award management system that provides a full-range of functionalities, from pre-award through post award. It also serves as a data repository with a comprehensive reporting functionality.

Proposals are to be submitted to the Office of Sponsored Programs SOLELY through RAMSeS. The new system allows the office to retain an electronic copy of all documents associated with proposals and awards. RAMSeS also permits the Principal Investigator (PI) to post drafts of the proposal and budget for review by Research Services. PIs are asked to complete the Notice of Intent in RAMSeS at least two weeks

prior to the submission date. The earlier the information is finished, the better prepared the Research Services and Sponsored Programs offices will be able to assist in the process.

Having RAMSeS in place will benefit the UNC system by not only providing standardization across all campuses, but also by greatly streamlining and improving General Administration's data collection and reporting efforts.

There is a link for RAMSeS on DORED's homepage. Any NCA&T employee may log into the system using his/her email handle and password.

<https://ncat.myresearchonline.org/ramses/>



NCBC Set to Host Research Session

The North Carolina Biotechnology Center (NCBC) is making its way to A&T. On October 14, beginning at 9 a.m. the center will host an information session. The event will take place in the Fort IRC building.

Dr. Cynthia Sollod, Science & Technology Development Programs Manager, will provide in-depth information on the Center's research grant programs, including the biotechnology research grants, multi-disciplinary research

grants, collaborative funding grants, institutional development grants and Oliver Smithies faculty recruitment grants.

Dr. Sollod will also summarize programs for education and commercialization. Ms. Deborah De, Statewide Programs Manager, will provide an overview of the grant process from the point of view of the funding

agency.

NCBC is a state-funded economic development non-profit organization established in 1984. Since its creation, it has supported more than \$200 million in awards through its funding programs in research, business, and education. A&T faculty have received over \$652,000 in NCBC awards.

Interested persons should register at:
www.ncat.edu/~divofres/services/training.php.

Expanded Website Offers New Grant Writing Tools

The Office of Research Services spent much of the summer working to expand their website to include more tools to assist in the grant-writing process. The "Quick Resources Gallery" is the latest addition to the site and aims to ease the grant writing process.

Some of the new tools include: a boilerplate for describing the University, templates for preparing proposal budgets, position papers and reports supporting "Project Need Statements", preliminary grant planning and analysis, course manuscript and CV preparation, grant management and funding sources for small "starter" grants.

The website is now up and running and has received positive feedback. The Quick Resources Gallery can be accessed by visiting the webpage for The Office of Research Services.

http://www.ncat.edu/~divofres/services/quick_resources/index.php



Dr. Shelly Qu summarizes her summer fellowship during the wrap-up program.

For the complete list of Funding Announcements, Visit our website:
<http://research.ncat.edu>

Funded Proposals July 1, 2008—August 31, 2008
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AWARD TITLE	AWARD	CURRENT PI	AWARD ADMIN DEPT
ONR/HBEC Future Faculty Fellowship Program	\$124,478.00	Monroe, Joseph	College Of Engineering
ONR/HBEC Future Faculty Fellowship Program	\$3,498.00	Monroe, Joseph	College Of Engineering
DTRA/Consortium Partnership Process Implementation	\$68,465.00	Hamoush, Sameer	Architectural Engineering
Program & Policy Coordination	\$205,569.00	Robbins, Richard	Agri Bus Appl Econ & Ag Science
Multidisciplinary, Multicampus, Videoconferencing Course Development Bioprocess Engineering	\$15,000.00	Shahbazi, Abolghasem	Natural Resources / Env Design
Project P.R.A.P.E: Professional Preparation of Adapted Physical Educators	\$186,558.00	Palma, Gloria	Human Performance / Leisure St
Precision Study of the Radiative Decay Widths of Light Pseudoscalar Mesons Via the Primakoff Effect	\$100,000.00	Gasparian, Ashot	Physics Dept
EPP 2006: NOAA Interdisciplinary Scientific Environmental Technology (ISET) Cooperative Research and Education Center	\$7,000.00	Bililign, Solomon	Noaa-Iset Center
EPP 2006: NOAA Interdisciplinary Scientific Environmental Technology (ISET) Cooperative Research and Education Center	\$2,200,000.00	Bililign, Solomon	Physics Dept
Learning To Teach, Learning To Serve Project	\$19,683.62	Hoard, Sharon	School Of Education
Course And Module Development In Nuclear Energy	\$100,000.00	Wang, Shih-Liang	Mechanical Engineering
N.C. A&T State University Upward Bound Math And Science Program	\$250,000.00	Wallace, Beverly	Upward Bound Program
Genetic Epidemiology Of Alzheimer's Disease Among African Americans	\$277,172.00	Byrd, Goldie	Biology Department
Common System Visualization (CSV) Effort for the Submarine Warfare Federated Tac	\$150,000.00	Mohan, Ram	Computational Science And Engineering
Preparing Hmong Farmers To Meet Niche Production And Marketing Opportunities PRO	\$85,646.00	Eley, Michelle	Cooperative Extension Programs
MARC Undergraduate Student Training In Academic Research (U-STAR) NCAT	\$211,125.00	Smith, Mary	Biology Department
House of Tomorrow Exhibit: NC A&T Participation in the Bicentennial World of Tomorrow	\$24,897.00	Szafranski, Wayne	Division Of Research And Economic Development
Collaborative Research: Enhancing Teaching of Grid Computing to Undergraduate Students	\$18,045.00	Li, Yaohang	Computer Science Department
Stars Extension Project	\$25,038.00	Bullock, Gina	Computer Science Department
Gerontology Education Curriculum Development Program	\$5,000.00	Davis, Robert	Sociology/Social Services
NCLSAMP Bridge to the Doctorate Fellowship Program at North Carolina State University	\$987,000.00	Thompson, Alton	Division of Academic Affairs
Long Term Training: Behavioral Addictions	\$150,000.00	Lusk, Stephanie	Human Development / Services
Long Term Training: Vocational Evaluation And Word Adjustment	\$100,000.00	Blalock, Kacie	Human Development / Services
Biotechnological Approach for Mass Propagation, Inoculation and Screening of Truffle (Tuber Melanosporum) Inoculated Seedlings	\$75,000.00	Isikhuemhen, Omoanghe	Natural Resources / Env Design
Biotechnological Approach for Mass Propagation, Inoculation and Screening of Truffle (Tuber Melanosporum) Inoculated Seedlings	\$7,500.00	Isikhuemhen, Omoanghe	Natural Resources / Env Design
Online Faculty Development Modules	\$4,000.00	Simkins, Scott	Academy For Teaching - Learning
Talent 21 Stem Undergraduate Program	\$557,971.00	Thompson, Alton	Division of Academic Affairs
Basic Immune System	\$30,050.00	Byrd, Goldie	Biology Department
Rehabilitation of Racial and Ethnic Minorities with Behavioral Addictions	\$206,590.00	Whittaker, Tyra	Human Development / Services
North Carolina A&T State University Personal Health and Wellness Education Project	\$119,455.00	Browne, Dorothy	Public Health



Funded Proposal July 1, 2008—August 31, 2008 continued

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AWARD TITLE	AWARD	CURRENT PI	AWARD ADMIN DEPT
Investigations in Intermediate Energy Spin Physics	\$131,914.00	Danagoulian, Samuel	Physics Dept
Dwight David Eisenhower Transportation Fellowship	\$15,000.00	Underwood, Deborah	Transportation Institute
Benchmark Intelligent Agent Systems for Distributed Battle Tracking	\$50,000.00	Esterline, Albert	Civil Engineering
The S-STEM Program For Computer Science Recruitment, Retention and Research	\$600,000.00	Dozier, Gerry	Civil Engineering
DNI S&T Center for Academic Excellence-Advanced Biometrics Technology Research	\$1,463,315.00	Dozier, Gerry	Department of Computer Science
DTRA/CONSORTIUM Partnership Process Implementation	\$30,723.00	Hamoush, Sameer	Architectural Engineering
The Sloan A&T Physics Scholars Program Preparing Undergraduates for a PH.D in the Sciences	\$1,442.00	Bililign, Solomon	Physics Dept
MBE Growth of GaSbN/GaSb and InSbN/InSb Heterostructures for Optoelectronic Device Applications in the IR Region	\$50,000.00	Iyer, Shanthi	Electrical And Computing Engineering Department
Office of Naval Research/ Historically Black Engineering College Committee Future Faculty Fellowship: Program Administration- Expansion Proposal to Contract NO. N00014-07-M-0132	\$33,926.00	Monroe, Joseph	College Of Engineering

Limited Submissions, October 15 – December 31

Major Research Instrumentation Program

(MRI) 08-583
Proposal due at NSF: 01-22-2009
Due at DORED NOI: 12-01-2008
Abstract: 12-01-2008
Proposal: 01-15-2009

Federal Cyber Service:

Scholarship for Service 08-602
Proposal due at NSF: 12-02-2008
Due at DORED NOI: 10-13-2008
Abstract: 10-13-2008
Proposal: 11-28-2008

Partnerships for Innovation (PFI) 08-583

Proposal due at NSF: 12-31-2008
Due at DORED NOI: 10-13-2008
Abstract: 10-13-2008

Bridges to the Baccalaureate Program (R25) PAR-07-411

Proposal due at NIH: 01-22-2009
Due at DORED NOI: 12-01-2008
Abstract: 12-01-2008
Proposal: 01-15-2009

High Performance Computing System Acquisition: Towards a Petascale Computing

Environment for Science and Engineering 08-573
Proposal due at NSF: 11-28-2008
Due at DOREDNOI: 10-13-2008
Abstract: 10-13-2008
Proposal: 10-21-2008

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