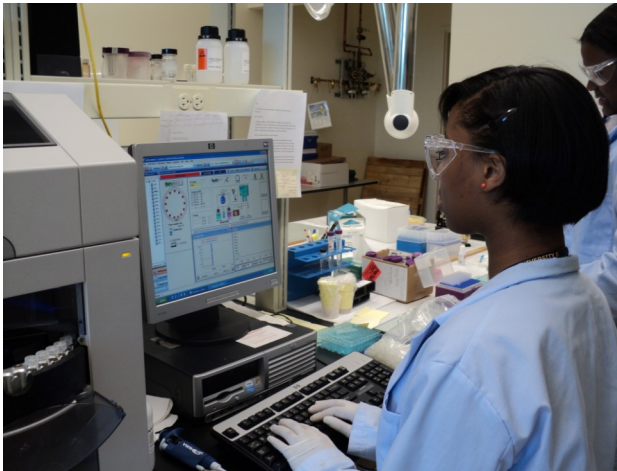


CPSER

The primary goal of the **Center for Promoting STEM Education and Research (CPSER)** is to increase the quality and quantity of students successfully completing baccalaureate degrees in STEM fields at FSU, by improving the recruitment, retention, progression, and graduation rates of minorities and women in the STEM disciplines. *CPSER is funded by Title III at Fayetteville State University.*



Summer research student working on separating proteins using capillary electrophoresis.



Interns preparing the beginning stage of their research with the interaction of Hessian Flies and wheat.

Contact Information

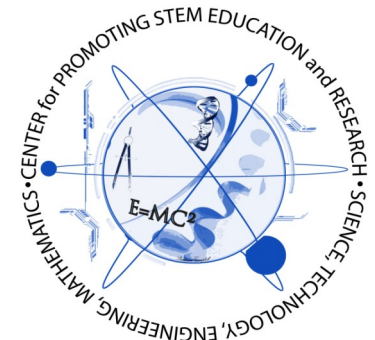
Daniel Okunbor, Ph.D.
Director
Phone: 910-672-2104
diokunbor@uncfsu.edu

Portia Nelson
Assistant Director
Phone: 910-672-2516
pnelson1@uncfsu.edu



College of Arts and Sciences
Lyons Science Annex, Room 329
1200 Murchison Road
Fayetteville, North Carolina 28301

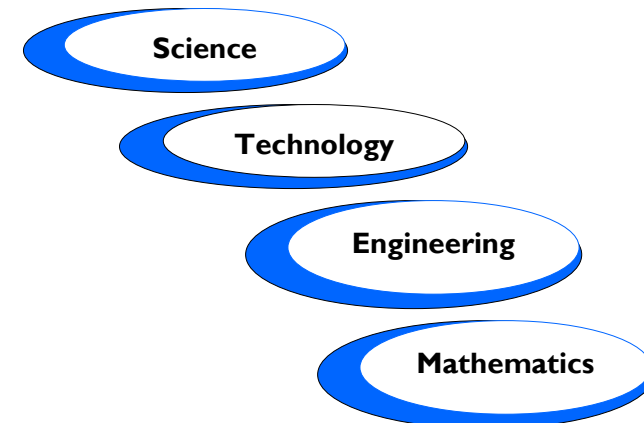
Fayetteville State University



Center for Promoting STEM Education & Research



Lyons Science Annex



The **Center for Promoting STEM Education and Research (CPSER)** will serve as an umbrella program for integrating all existing STEM educational enrichment programs and research activities in the College of Arts and Sciences to ensure collaboration among the externally funded STEM enrichment programs.

Externally Funded STEM Enrichment Programs in the College of Arts & Sciences

RISE— *Research Initiative for Scientific Enhancement*

UROMS— *Undergraduate Research Opportunities for Mathematics and Science*

UCAMCS—*University & Community*

Alliance for Mathematics & Computer Science

OPTIMUM— *Opportunities for Talent*

Expansion in Interdisciplinary Education for Minorities and Women in Undergraduate Math and Science

NC-LSAMP—*North Carolina Louis Stokes Alliance for Minority Participation*

McNair—*McNair Postbaccularate Achievement Program*

ISAS— *Integrated STEM Academic Success*

NASA— *National Aeronautics and Space Administration*

The CPSER staff believe that providing meaningful academic advisement, opportunities for authentic research experiences and effective mentoring from STEM faculty will support learning and enhance effective recruitment, enrollment, retention, and graduation of students in the STEM disciplines.



2010 Summer Research Interns as they visit the Aquarium in Myrtle Beach, SC.



Dr. Bao discusses the importance of science and research to the Summer Research Interns.

CPSER Activities

1. **Five-week High School Rising Senior Summer Research Internship**

- 5-week research internship
- Intensive SAT/ACT prep
- STEM career workshops
- Field trip to a research laboratory
- Inquiry instruction in advanced algebra & geometry
- Instruction in reading/writing using a service learning approach

2. **Five-week Rising FSU Sophomore Summer Intramural Research Internship**

- 5-week research internship
- Peer research mentoring
- STEM career and academic professional development workshops
- Field trip to a research laboratory

3. **Mathematics & Science Undergraduate Research Symposium**

- Presentations by STEM enrichment program scholars and FSU STEM faculty
- Keynote address by a “Distinguished Scientist” in a STEM discipline

4. **STEM Faculty Focus Group**

- Monthly interactive meetings to discuss “Best Practices” to promote teaching, learning, & research in STEM disciplines

5. **“Strategies that Work” STEM Faculty Development Workshops**

6. **STEM Student Success Workshops**

7. **Peer-Tutoring for 100- & 200-Level STEM Courses**



Results of wheat seedlings attacked by Hessian Flies. One of the research conducted during the summer by the interns.