



2011 Mid-Atlantic Regional Space Grant Meeting

Candiece White
School of Engineering
Office of Student Development

Office of Student Development: Student Support Services

- Academic & Personal Advising
- Support for students with disabilities
- Tutoring
- Scholarships
- Engineering Education
- Pre-College Programs (Governor's School of Engineering & Technology, Junior Science & Humanities Symposium)
- Women in Engineering Initiatives (RU WELL & The Academy at Rutgers for Girls in Engineering & Technology- TARGET)
- Educational Opportunity Fund

Women in Engineering Initiatives

- Mission of RU WIE Initiative is to provide support for future and current female engineers and to engage various stakeholders in women in engineering programs.

Four Objectives of RU WIE Initiatives:

- Recruit young women into engineering
- Provide support for current enrolled female engineering students
- Link stakeholders in an effort to enhance diversity in the engineering workforce
- Contribute to existing research framework

Women in Engineering Programs

- Collegiate Initiative: Rutgers University Women in Engineering Leadership League
 - an innovative program designed to increase the retention and graduation of women in engineering.
- Pre College Program: The Academy at Rutgers for Girls in Engineering & Technology
 - a summer program designed for middle school and high school girls to increase awareness and familiarize them with career opportunities within engineering.

The Academy at Rutgers for Girls in Engineering & Technology (TARGET)

- TARGET was incepted in the summer of 1997
- Introduction of Women in Science and Engineering was developed in 2001
- IWISE was renamed to TARGET II in summer 2002
- Reorganized TARGET in the summer of 2008
 - Students explore engineering through hands on activities
 - Program supports students from 6th through 11th grade
 - Commuter program
 - Program continues during the academic year with Summer Institutes

Engineering Education: High School Physics

- Introduced pre-service Physics teachers to engineering
- Designed physics lessons that had hands on engineering component
- Incorporate their summer course with the TARGET program

Educational Opportunity Fund (EOF)

- Provides access to higher education for economically and educationally disadvantaged students
- EOF assists low-income residents who are capable and motivated but lack adequate preparation for college study
- EOF supports a wide array of campus-based outreach and support services at institutions
- School of Engineering EOF program began in 1978
- Summer Institute provides students with courses and access to university resources to prepare them for their academic career
- Currently 55-65 students per summer
- EOF support continues throughout their academic career through counseling, tutoring, mentoring, etc

Impact of NJSG

- Provided support for the pre-service teachers
 - Materials for the teachers to design their lesson plans and pilot curriculum with TARGET
- Provided support to The Academy at Rutgers for Girls in Engineering & Technology (TARGET) program
 - Project supplies for all sessions of the TARGET program
 - Support of faculty and staff affiliated with NJSG
- Provided support to the Educational Opportunity Fund (EOF) program
 - Students were able to stay during the weekends
 - Students had the opportunity to engage in professional development

Questions

