

NSF-MRSEC University of Maryland Highlight Pre-Engineering Program: Project Lead the Way

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In 2009, the **University of Maryland MRSEC** completed a 4th successful year of pre-engineering activities in its 6-year partnership with Charles H. Flowers High School in Prince George's County (PGCPS), MD.

Outcomes include:

• Raising the Quality of Pre-Engineering Education

MRSEC researchers worked with students at their high school and on the UMD campus to provide exciting and challenging pre-engineering curriculum activities and shared the excitement of cutting-edge research.

• Extending the Curriculum through Summer

To further prepare these student for academic success, MRSEC provided a summer program linked to the curriculum that included activities to promote a life-long interest in science and engineering.

• Enhancing Program Infrastructure

MRSEC was part of an advisory committee to help teachers in PGCPS implement PLTW and establish industrial partners.

• Increasing Students Going to College in Science & Engineering

MRSEC is particularly proud of the number of PLTW students attending college.

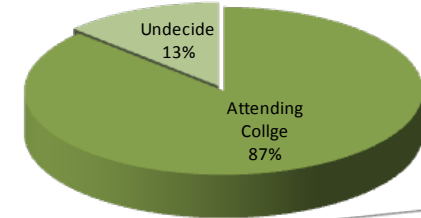
• Meeting Diversity Goals

MRSEC helped to inspire and retain underrepresented students in STEM through recruiting and mentoring.

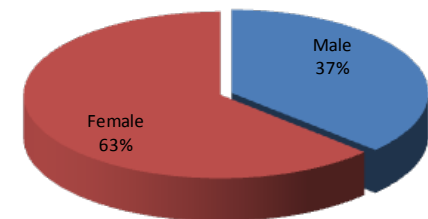
• Student Testimony

A graduating student stated, *"As I enter into my freshman year of college, and take the tools from the MRSEC program, I want to thank you for all you have provided me with. I'm ready!"*

MRSEC - PLTW Attending College
Classes 2008 and 2009



MRSEC - PLTW Gender Breakdown
Classes 2008 and 2009



*Total number of students represented in the chart = 30. Total number of groups underrepresented in STEM research = 30.