

## Stem Task Force – WKU description

Preface: Not a one-dimensional problem and needs to be worked on at several levels.

P-12 improvement, parent involvement and support, economic development.

The specific programs:

### **P-12**

- Math Alignment
  - Mathematics teacher professional development – grant through the Mathematics Center at NKU.
  - Local P-16 Math Summits – no money needed
- Online MA in Mathematics Education – reallocation of resources
- The Academy of Mathematics and Science in Kentucky – keep brightest on track – state appropriation
- Science Alliance
  - Competitions for MS and High School Students hosted
    - Robotics Competition
    - First LEGO robotics competition
    - Physics Olympiad
    - Science Olympiad
    - Girls in Science Day

### **Economic Development**

- Applied Research and Technology Program (Program of Distinction)
  - Partner with the Central Region Innovation and Commercialization Center, Chamber of Commerce, Judge Executive and Mayor of Bowling Green
  - Established a cluster around materials science
  - 16 and growing number of high tech companies in our WKU R&D Center – hired six of our students last year, with 30 internships.
  - Three companies have moved to be close to this cluster and may be bringing intellectual capital with them.
  - ARTP Expo – March 1 – industry and middle and high school counselors to make them aware that STEM students can develop or find high-tech, high-paying jobs in Kentucky
- Entrepreneurship Center – get students to think entrepreneurially
  - Competitions – several have led to the formation of companies