

**Purdue University Regional Visualization
and Analytics Center
Purdue Homeland Security Institute
PK- 12 Educational Programs**

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PK-12 Educational Initiatives: Middle School Curriculum

***Partnering with two northern Indiana 7th grade teachers
(since 2005)***

***Creating science and social studies modules to teach
concepts of visualization, analytics & homeland security***

***Curriculum can readily be integrated into PK-12 instruction
as an adjunct to current studies***

Curriculum is aligned to Indiana's education standards

Module topics have included:

- Visualization of data to show cause and effect,
- Causes of terrorism,
- Affect of climate and geography on people, and
- Sensor technologies that address real world problems.

***Plan to continue curriculum development that can reach
additional PK-12 students as well as embellish website
resources and present materials at conferences.***

PK-12 Educational Initiatives: Teacher Workshops

Developing two-day middle school workshop for the summers of 2008 & 2009 that will:

- Introduce Homeland Security topics to teachers
- Offer hands-on experiences and provide the opportunity to share existing lesson plans
- Obtain feedback and expand upon curriculum ideas

These workshops will allow teachers from many school districts to

- Create their own programs applicable to their schools
- Allowing these Homeland Security topics to reach many children across the state.

Homeland Security STEM Career Development Program

***\$500,000 in scholarships from DHS
Scholarships awarded to graduate students to
pursue careers in HLS***

Research areas include:

- Terrorism and Infectious Disease
- Cyber Threats
- Analysis of Linked Animal and Human Data
- Explosive and Radiation Detection
- Border Security
- Cargo Container Detection

***Scholarship recipients will visit science, math
and technology high school classes to discuss
HS-STEM opportunities in college and beyond***

For More Information Contact

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