



INQUIRING WITH GIS

A TEACHER PROFESSIONAL DEVELOPMENT PROJECT

The iGIS Project will prepare you to guide students through **local watershed investigations using Geographic Information System (GIS)**—a computer mapping, visualization and analysis tool. You will learn to use classroom-friendly GIS software, scientific datasets, and our compelling iGIS unit to analyze human impacts on a local stream site that you select. During a 5-week online session, you will work through the iGIS unit at your own pace and with our feedback. You will then attend a 1.5-day workshop in Frostburg MD, where we will help you create your own local datasets and adapt this unit for your classroom.

WHAT WILL TEACHER PARTICIPANTS RECEIVE?

- Locally-relevant GIS-based unit that examines watersheds, stream ecosystems, and human impacts on the water cycle and aligns with PA, MD and WV science standards
- MyWorld GIS K-12 Campus License (\$499 value) plus loaner stream sampling kits
- \$600 stipend plus meal/transportation allowance and lodging (as needed)
- Two Frostburg State University graduate credits (fees/tuition not covered)

WHEN AND WHERE IS THE 2009 iGIS PROJECT?

Choose **Session 1** or **Session 2**—whichever best fits your schedule.

	Session 1 (2009)	Session 2 (2009)
Online workshop (~5 hours per week of independent work from your home or school)*	May 11 <i>TO</i> June 18 **	July 6 <i>TO</i> August 6
Conference call (2 hours from your home or school)	May 15 @ 4pm-6pm <i>OR</i> May 16 @ 10am-12pm <i>OR</i> May 16 @ 1pm-3pm	July 10 @ 4pm-6pm <i>OR</i> July 11 @ 10am-12pm <i>OR</i> July 11 @ 1pm-3pm
On-site workshop (1.5 days @ Appalachian Lab, Frostburg MD)	June 19 @ 12pm-5pm <i>AND</i> June 20 @ 9am-5pm	August 7 @ 12pm-5pm <i>AND</i> August 8 @ 9am-5pm
Classroom implementation	Upcoming school year	Upcoming school year

*We will mail iGIS training materials approximately 2 weeks before the start date.

**This session has an extra week due to Memorial Day; no work is assigned that week.

WHO SHOULD APPLY?

7th – 12th grade science teachers in Appalachian regions of PA, MD and WV interested in integrating local GIS-based watershed investigations in their curriculum. You should have a computer and Internet connection for the online session and access to multiple school computers for classroom implementation.

APPLICATIONS DUE APRIL 6, 2009

Applications and more information are available at <http://alese.al.umces.edu/igis> or by contacting Cassie Doty at cdoty@al.umces.edu or 301.689.7134.



An ALESE program funded by the National Science Foundation

