JUST A FEW STEPS AWAY....

To apply for E.S.I.C. , visit

http://gis.kuscied.org and complete the online application. The application requires brief biographical and professional information as well as a "Tech Check".

For those science educators who already use standards-based instructional methods, the E.S.I.C. program is an ideal venue to learn and implement technologies to extending student scientific inquiry.

Don't wait—apply today! The initial deadline for applications is February 1.

GIS FOR SCIENCE EDUCATORS

KanGIS: The K-12 GIS Community
- http://kangis.org

GIS Lesson Plans:
- http://kangis.org/arclessons

GIS Training Calendar for Educators
- http://kangis.org/learn

USGS GIS Education
- http://rockyweb.cr.usgs.gov/public/outreach/

ESRI K-12 Education
- http://www.esri.com/k-12

What is a G.I.S.?

A Geographic Information System (GIS) is a tool for geographic data analysis. It allows for the collection, storage, analysis, and display of data. The typical display of a GIS is a map-based image where data layers represent distinct systems or types of information. These layers can be added in any sequence the user prefers, and based upon the data available to the user a map representation, analyses, or visualization can be created based on that data.

E.S.I.C.

The University of Kansas
Center for Science Education
702 JR Pearson Hall
Lawrence, KS 66045

Web: http://gis.kuscied.org
Project Leaders: Tom Baker (tbaker@ku.edu) &
Steve Case (stcase@ku.edu)

The University of Kansas
Center for Science Education

Extending Scientific Inquiry with G.I.S.

EXTENDING SCIENTIFIC INQUIRY THROUGH COLLABORATIVE GEOGRAPHIC INFORMATION SYSTEMS

http://gis.kuscied.org

INQUIRY AND TECHNOLOGY

The **E**xtending **S**cientific **I**nquiry through **C**ollaborative G.I.S. is a three-year, jointly-sponsored program at the University of Kansas to promote the use of geotechnologies in K-12 science education. The collaboration consists of yearly classes of 24 participants from across the U.S. and Canada who study and implement classroom scientific inquiry with the aid of Geographic Information Systems (GIS).

The collaborative begins each spring with an eight week online course, teaching the fundamentals of GIS technologies and the integration of these technologies into middle and secondary science curriculum. During July, participants meet face-to-face for two weeks to hone technical, pedagogical, and science content skills as they produce collaborative Project-Based Learning (PBL) units, utilizing GIS technologies.

Extend your students' inquiry with GIS

GEOGRAPHIC INFORMATION

During the subsequent fall, E.S.I.C. fellows implement the curricula they have designed in their classrooms, refining the unit, reporting on student progress, and encouraging other classroom teachers to participate in the unit of study. E.S.I.C. fellows continue to communicate throughout the school year on their personal progress, using the E.S.I.C. digital communication network.

Technology supporting learning

THE E.S.I.C. ADVANTAGE

Applicants to the program who are accepted and successfully complete the online and onsite courses will receive, in addition to an invaluable education, the following tools to utilize in the classroom:

- A school site license of ESRI's ArcGIS 8.x (retail value of $2,500)
- A $1,000 stipend for onsite attendance
- Free access to online PBL construction tools
- PBL-GIS Library including:
    - *Getting to Know ArcGIS*
    - *The Art of Science*
- A certificate of fellowship at E.S.I.C.
- Graduate credit may be purchased through the University of Kansas
- Additional funding for travel may be available for out-of-state teachers

PARTICIPANT TIMELINE

Interested applicants may find the timeline helpful as consideration for planning spring and summer schedules.

- November 1, 2003: Participant Application process opens
- February 1, 2004: Participant Application process closes
- February 15, 2004: Participants are notified of their acceptance
- March 1, 2004: The online course begins
- May 15, 2004: The online course concludes
- July 12 - 23: The onsite course is held in Lawrence, KS.

Don't forget to send your application today!

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