

SOUTHERN DISTRICT INNOVATIVE GRANT PROPOSAL

1. Project Coordinator Information

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2. Statement of Need:

Science, Engineering and Technology (SET) is one of three mission mandates of the National 4-H Youth Development Program. The National 4-H Council states "4-H is uniquely positioned to develop America's future generation of scientists and engineers. Through SET, 4-H has the ability to draw upon a rich and diverse set of research-based curricula and activities that provide hands-on, real world experiences delivered in both informal and formal settings." Wisconsin recently formed a state work team focused on the Science, Engineering and Technology program area. Wisconsin 2008 county needs assessments highlight the importance of quality education and national educational research identifies the need for science and technology education.

One of the newest 4-H projects offered in Wisconsin in the SET program area is Geospatial. In this project youth learn geographical awareness, gather data using a GPS (Global Positioning System) unit, learn about and create maps, and use GIS (Geographic Information Systems) in a hands-on-learning environment. Several counties in the Southern District offer the Geospatial 4-H project and others would like to implement GIS/GPS activities in events like camp, family learning days and other community activities.

3. Project Goals: To fully experience the Geospatial project, youth need GPS units, project experiences and adult leadership. Few counties in the Southern District have the equipment or support these 4-H youth need to be successful and it would be cost prohibitive for each county to purchase the equipment. Providing GPS units and planned Geospatial activities will enable 4-H agents in the Southern District to provide enhanced science activities at 4-H events.

- a. Prepare three (3) Geospatial 4-H project resource kits to be shared by 14 counties in the Southern District
- b. Develop and distribute to 14 counties Geospatial activities that can be used at Project Learning Days, 4-H Camp, and at other 4-H events
- c. Provide training to Southern District 4-H staff on use of Geospatial resources
- d. Develop partnerships among the 4-H programs in the Southern District Counties and selected departments in UW- Richland Center, UW- Rock County, UW-Baraboo, UW-Platteville and UW-Whitewater

4. Personnel—the 4-H programs will build project partnerships with the other groups listed

- a. 4-H Youth Development Agents, leaders and members in the Southern District
- b. UW-Richland, UW-Rock County, UW-Baraboo and UW-Platteville and UW-Whitewater faculty and students
- c. Wisconsin 4-H SET team
- d. Industry partners (GE, Alliant, Ag Co-ops, etc.) and numerous County departments

5. Dollars Requested/Budget: \$ 4,000

- a. 30 Global Positioning Units @ \$125-- \$ **3750**
- b. Batteries, 2 AA per GPS unit --**\$250**
- c. Develop activity plans (staff time, travel) -- **\$1000 (IN-KIND from county 4-H programs)**
- d. Create Geospatial kits for counties to borrow -- **\$150 (IN-KIND from county 4-H programs)**
- e. Training expenses (staff time, travel, resources)—**\$2500 (IN-KIND from county 4-H programs)**
- f. Partnership Expenses(time, travel) —**\$2000 (IN-KIND from 4-H programs, university/college/industry partners)**