

Research Opportunity for Primary and Secondary Educators

Introduction:

This program is a new initiative that will support active participation by primary and secondary school teachers of science and mathematics in research and education projects in any of the fields involving electro-optics. The intent of the program is to facilitate professional development of primary and secondary school teachers through strengthened partnerships between local school districts and Penn State's Electro-Optic Center.

Proposal Format:

A proposal must be submitted by the interested educator. The description of the activity should clearly articulate the research interest and the nature of the involvement in the ongoing or proposed research project. For example, the teacher may participate in the design of new experiments, modeling and analysis of experimental data, algorithm and software development and other activities that will result in intellectual contributions to the project.

Since it is expected that this program will also lead to transfer of new knowledge to classroom activities, the description should also indicate what sustained follow-up would be provided to help in translating the teacher's research experience into classroom practice. A one-page biographical sketch of the teacher and a one-page budget page should also be included. U.S. citizenship required.

Funding and Program Duration:

The duration of the program will be one year and the project may be carried out during summer months, during the academic year, or both. The total of the program is limited to \$10,000 per proposal. A budget would typically include teacher's stipend and materials, equipment, supplies and software.

Outcome:

The participants in the program will be expected to provide a brief final report upon completion of the program. In addition, copies of classroom materials such as lesson plans, demonstrations outlines and parts lists, PowerPoint presentations, etc. would be made available to the EOC for distribution to other primary and secondary school teachers around the world.

Send proposals to:
Penn State Electro-Optics Center
Research Opportunity for Educators
Attn: Education Programs
222 Northpointe Blvd.
Freeport, PA 16629