



Agilent Technologies
Innovating the HP Way

The Agilent Technologies Black Physics Undergraduate Student Award

Inspiring excellence in physics and applied physics

Agilent Technologies announces the sponsorship of a new award to be given at the National Conference of Black Physics Students, to be held at Stanford University, March 29 – April 1, 2001.

The Agilent Technologies Black Physics Undergraduate Student Award is offered to encourage and inspire talented students to pursue a career in physics.

The Agilent Technologies Black Physics Undergraduate Student Award is one of Agilent's world wide programs to help students realize the possibilities of science and technology in education. The goal is to prepare today's students for tomorrow's demands. Agilent supports and funds programs in equipment grants, sponsored university research, PhD Fellowships and student awards that help meet the needs of universities and students world wide.

Agilent's Black Physics Undergraduate Student Award offers the student the opportunity to submit a Project Report at the National Conference of Black Physics Students describing a completed, original research project and have it recognized by a jury of highly regarded professional scientists working within Agilent Technologies.

The Project Report will describe a project the student conducted and will show evidence that the student developed critical reasoning skills, used scientific method and demonstrates how math and science contributes to the successful result of the students project.

Deadline

Deadline for Entry is 5 pm on _____Feb 16, 2001_____

Send entries to:

Agilent Technologies, Inc.
University Relations Programs
3400 Deer Creek Road, 26U
Palo Alto, CA 94304
Attention: Agilent Technologies Black Physics Award Program

Or email entries to **university_relations@agilent.com**

We recommend that students submit their entries as early as possible to avoid missing the deadline. Late and/or incomplete entries will not be accepted.

The Process

Each completed entry consists of (1) a completed **Entry Form** and (2) a written description of the student's research using **The Project Report Submission Form**.

Entries will be checked for completeness and accuracy; all Project Reports will be read and all Entry Forms will be reviewed and checked. The Project Report will be evaluated and judged by three or more physicists, applied physicists, and/or engineers working within Agilent technologies.

Announcement of the winners will take place at the Conference Awards Banquet on Saturday, March 31, 2001

Requirements

1. Each undergraduate student may submit only one entry. To enter the competition for the Agilent Award, a full length Project Report must be submitted regardless if the student presents his/her research project in front of an audience as a talk or via a poster presented during the poster session. Awards will be offered for best paper presentation, and one paper presentation runner up; as well as, best poster presentation, and one poster presentation runner up.
 2. The research project must be the work of a single individual. The student may 'consult' with his/her teacher. The research project must be the student's own original research work.
 3. Each undergraduate student's report, including all appendices, tables, charts, etc., may not exceed 10 pages. At the discretion of the judges, submissions may be disqualified if the reports exceed the 10-page limit. The student must use the **Project Report Submission Form**.
 4. Each entry must include the **Agilent Award Entry Form**.
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Writing the Project report:

The Project Report must include:

- A Title
- A short abstract or summary of the project in layman's terms. The summary from the awardee's projects will be used in press releases to conference attendees and the general public.
- A short introduction describing the background and purpose of the research
- An experimental section describing materials, methods and results
- A short conclusion discussing the results their implications
- A bibliography of references
- Tables, charts, diagrams, photographs, drawings etc to support and illustrate the research data

The purpose of your report is to:

- describe your research project
- show evidence of research ability
- show scientific originality and creative thinking
- give you the opportunity to prove you planned and completed a project in physics research

The report should describe your actual laboratory, field, or theoretical research (not library research). If you use ideas or data not your own, state this clearly and give credit to the appropriate source.

Must the report record only original work?

Your project need not be entirely original; most research must build on the work of others. Strive for originality, even if you work with experiments already performed. Show the additional work that is your own.

Get help. Exhaust every possible resource: books, technical journals, experts in the field, advisors. Supply names, addresses, and telephone numbers of those who help you.

Should the report be autobiographical?

No. Do not go into lengthy autobiographical detail about the development of your interest in science. This personal history, while interesting, does not provide proof of your scientific, mathematics, or engineering abilities.

Should the report be historical?

Only incidentally. Investigate the literature pertaining to your subject, but do not use the literature as your report. Any history of the literature should only provide background for your work and not be the purpose or subject of your research. You must choose a subject that you can investigate first-hand.

How soon should I start on my project?

Start work on your project as soon as possible. Emergencies or changes in plans may arise and take more time than you anticipate. There is no time limit on your research period.

Think through all details of defining your problem, setting up controls, collecting and recording your data, and determining what you are seeking in your final results.

Give yourself ample time because, as your work progresses, you will see opportunities for improvement.
