

APPLICATION QUESTIONNAIRE

Applied Research Laboratories Science and Engineering Apprenticeship Program Summer 2009

Applied Research Laboratories The University of Texas at Austin

NOTE: This program is for students who will be attending a senior college beginning with the Fall 2009 semester (preference given to students attending UT Austin, and whose intended majors are electrical, mechanical and aerospace engineering, physics, mathematics, and computer science). You may reproduce this questionnaire on your own computer. As much as possible, please format as shown here. If you fill out the questionnaire by hand, use black or dark blue ink - do not use pencil.

Deadline to Apply: March 27, 2009
See checklist on page 4 before mailing

Name: _____ Date Form Completed: _____

High School: _____ Graduation Date: _____

Teacher (full name): _____

Counselor (full name): _____

Home Address:

(Street Address)

(City, State, Zip)

Home Telephone: _____

E-Mail Address: _____

U.S. Citizen? Yes___ No___ UT EID: _____

1. What is your intended college major?

2. List the high school math and science courses you have taken, including those in which you are currently enrolled.

3. List any extracurricular activities you are involved in.

4. Have you had any experience with electronic or mechanical systems such as hobbies involving model building, amateur radio, science fair projects, or playing musical instruments? Please explain.

5. Have you had any experience working with computer hardware and/or software? Please explain.

6. What would you like to gain from a summer internship in science and/or engineering?

7. What career plans have you set for yourself?

8. List any honors or awards you may have received (i.e., National Honor Society, merit scholar, science fair competition, music, UIL competition, Scouts, etc.).

9. If you place a large basin of water directly on the equator, allow the water to settle completely and pull the plug in the basin bottom, the water will run out without any appreciable circular motion. If you then move the same basin a few feet North or South of the equator and repeat the experiment the water will rotate as it drains out of the basin. What direction does it rotate in the northern hemisphere? What direction does it rotate in the southern hemisphere? What causes this rotation? Can you explain this rotation using Newton's second law $F=MA$? Try to answer this question without using Google or Wikipedia.

Checklist for sending application to the Science & Engineering Apprenticeship Program:

1. You are a graduating senior and will be attending a senior college Fall 2009.
2. You are a US citizen.
3. You are available to work from June 8th through August 13th.
(unpaid time off allowed for attendance of Freshman college orientation)
4. Apprenticeship Application (this form) is completed.
5. UT Austin Student Application/ARL:UT Skills Inventory Form are completed.*
6. Please include a resume if you have one available.
7. Copy of High School transcript is attached. This should include:
 - a. Courses completed
 - b. GPA (if school calculates GPA)
 - c. Class rank (if school assigned class rank)
8. SAT scores included (or other college entrance exam scores)

*The UT Austin Student Application/Skills Inventory Form can be found on ARL:UT's web site at: http://wwwext.arlut.utexas.edu/education/HS_apprentice.html

Mail all material to:

Science & Engineering Apprenticeship Program
HR Services Office
Applied Research Laboratories
P.O. Box 8029
Austin, TX 78713-8029