

APPLICATION QUESTIONNAIRE

**Applied Research Laboratories
Science and Engineering Apprenticeship Program
Summer 2008**

**Applied Research Laboratories
The University of Texas at Austin**

NOTE: This program is for students who will be attending college beginning with the Fall 2008 semester (preference given to students attending UT Austin). 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 28, 2008
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. This problem is meant to be an exercise in trying to figure out something that you really don't have any idea about. Don't go to the internet and try to look up an answer. I am interested in your ability to reason and make educated guesses. In late 2007, Congress passed an energy bill that raised the Corporate Average Fuel Economy (CAFE) standard for cars, light trucks and SUVs to 35 mpg by 2020. The question is; How many 42 gallon barrels of oil will this change save? Assume the following "facts": The current standard for cars, SUVs and light trucks is 27.5mpg. (The rules are really more complicated than that, but for this problem, assume the CAFÉ standard for these three vehicle types is 27.5 mpg.) Assume the number of vehicles under this standard in the US increases by 3% per year between 2008 and 2020.

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

1. You are a graduating senior and will be attending college Fall 2008.
2. You are a US citizen.
3. You are available to work from June 3 through August 14.
(unpaid time off allowed for attendance of Freshman college orientation)
4. Apprenticeship Program Application is completed.
5. UT Austin Student Application/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://www.arlut.utexas.edu/adg/employ/studentjobs.html#application>

Mail all material to:

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