

2018 SwRI Young Engineers & Scientists (YES) Summer Program

July 18 – August 3, 2018 (Weekdays)

Please Complete and Return this Application by **March 09, 2018** to:

YES2018@swri.edu

Or mail to: Mr. Greg Fletcher
Southwest Research Institute
6220 Culebra Road
San Antonio, TX 78238-5166

Northside ISD students: Please cc or provide a copy of your application to the
ISM/GT Teacher at your school

Note: Items 20 and 21 require an essay and résumé respectively.

First Name _____ Middle Initial ____

Last Name _____

Address _____

City _____

State _____ Zip Code _____

E-mail Address _____ (Required)

Please make this legible as it will be used for future communication with you regarding application status

Telephone Number () -

1. Male ____ Female ____

2. Date of birth:
Month Day Year

3. Name of parent or guardian you live with:

Last First Middle Initial

4. What is the name of the school that you are presently attending?

Name _____
PLEASE PRINT FULL NAME OF SCHOOL

City _____ State _____ School Telephone Number _____
(Area Code)

5. Indicate the grade you will be entering at this school in August 2018:

Grade 11 12 **(program open only to 2018-2019 H.S. Juniors & Seniors)**

6. Which best describes the location of your school?

Large-size city Suburb of a large city Medium-size city

Small town Rural area

7. Please check the type of school this is:

Private religious Private non-religious Public Don't know

8. Rank in terms of whom you think had the most influence on whether you took (or will take) science or math courses. (1 = most influence; 5 = least influence)

I did Parents/guardians Teachers Counselors Friends

9. How interested are you in taking more science and mathematics courses at school?

Extremely interested Very interested Somewhat interested Not very interested

10. Check all of the following subjects that you have completed or are currently taking. Please indicate if there was a lab component.

MATHEMATICS/COMPUTER SCIENCE (Check all that apply)	Check here if there was a lab component	SCIENCE (Check all that apply)	Check here if there was a lab component
<input type="checkbox"/> Mathematics, grade 6	<input type="checkbox"/>	<input type="checkbox"/> Science, grade 6	<input type="checkbox"/>
<input type="checkbox"/> Mathematics, grade 7	<input type="checkbox"/>	<input type="checkbox"/> Science, grade 7	<input type="checkbox"/>
<input type="checkbox"/> Mathematics, grade 8	<input type="checkbox"/>	<input type="checkbox"/> Science, grade 8	<input type="checkbox"/>
<input type="checkbox"/> Algebra, 1st year	<input type="checkbox"/>	<input type="checkbox"/> Biological, Environmental, Life Sciences	<input type="checkbox"/>
<input type="checkbox"/> Algebra, 2nd year	<input type="checkbox"/>	<input type="checkbox"/> Chemistry	<input type="checkbox"/>
<input type="checkbox"/> Geometry	<input type="checkbox"/>	<input type="checkbox"/> Physics	<input type="checkbox"/>
<input type="checkbox"/> Trigonometry	<input type="checkbox"/>	<input type="checkbox"/> Physical Science	<input type="checkbox"/>
<input type="checkbox"/> Computer Science I	<input type="checkbox"/>	<input type="checkbox"/> Earth/Space Sciences	<input type="checkbox"/>
<input type="checkbox"/> Computer Science II	<input type="checkbox"/>	<input type="checkbox"/> Advanced Science, AP Science	<input type="checkbox"/>
<input type="checkbox"/> Probability, Discrete Mathematics	<input type="checkbox"/>	<input type="checkbox"/> Calculus	<input type="checkbox"/>
<input type="checkbox"/> Advanced Mathematics, Pre-Calculus	<input type="checkbox"/>	<input type="checkbox"/> AP Calculus	<input type="checkbox"/>
<input type="checkbox"/> Statistics	<input type="checkbox"/>	<input type="checkbox"/> AP Physics	<input type="checkbox"/>

11. What is your approximate average grade this year in all subjects combined?

Classes
Not Graded **A B C D F** **What is your Grade Point Average?** _____

12. For each of the school subjects listed below, mark the statement that best describes your grades from sixth grade until now.

	ENGLISH	MATHEMATICS	SCIENCE	SOCIAL STUDIES
Mostly A's (90-100%)	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Mostly B's (80-89%)	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Mostly C's (70-79%)	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Mostly D's (60-69%)	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
My classes are not graded	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

13. How likely is it that you will become a scientist, engineer, or mathematician?
 ___ Better than 50% chance ___ 50% chance ___ Less than 50% chance

14. How far in school would you like to go? (Check only one)

- ___ Won't finish high school
- ___ Would like to graduate from HS, but won't go any farther
- ___ Would like to go to vocational, trade or business school after HS
- ___ Would like to attend college
- ___ Would like to graduate from college
- ___ Would like to attend higher level of school after graduating from college

15. If you plan to go to college, list your choice of majors. (See list below)

First Choice - ___ Second Choice - ___ Third Choice - ___

- | | |
|---|---|
| 01 - Agriculture and Natural Resources | 13 - Library Science |
| 02 - Architecture and Environmental Design | 14 - Mathematics |
| 03 - Biological and Life Sciences | 15 - Military Sciences |
| 04 - Business and Commerce | 16 - Philosophy, Religion, and Theology |
| 05 - Communications (Advertising, Business, etc.) | 17 - Astronomy |
| 06 - Computer and Information Sciences | 18 - Chemistry |
| 07 - Education | 19 - Earth Sciences and Geology |
| 08 - Engineering and Engineering Technologies | 20 - Physics |
| 09 - Foreign Languages and Classical Languages | 21 - Social Sciences |
| 10 - Health Professions | 22 - Technical and Vocational |
| 11 - Home Economics | 23 - Other, specify _____ |
| 12 - Language and Literature | |

16. How certain are you of your FIRST CHOICE of major in question #15 above?
 ___ Very certain ___ Fairly certain ___ Not certain

18. Have you ever attended a summer program for engineering or the sciences? Yes No
 If YES, list the names of the universities or organizations that sponsored the programs you attended and the years you attended.

Name of organization **Year(s) Attended**

19. If offered at your school, have you signed up for an independent study (ISM) course in your next school year? (Mandatory if offered at your school)

- Yes No Not offered Already taken

20. One Page Essay: Attach a one-page essay discussing why you would like to participate in the YES summer program. Include your best idea for an independent study project or an academic area you would like to research.

21. Résumé: Attach an applicant résumé.