## 2015 SwRI Young Engineers & Scientists (YES) Summer Program

### July 15 – July 31, 2015 (Weekdays)

Please Complete and Return this Application by **February 26, 2015** to:
YES2015@swri.edu

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

Northside 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.

<table>
<thead>
<tr>
<th>First Name</th>
<th>Middle Initial</th>
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<thead>
<tr>
<th>Last Name</th>
<th>Address</th>
<th>City</th>
<th>State</th>
<th>Zip Code</th>
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<thead>
<tr>
<th>E-mail Address</th>
<th>Telephone Number ( )-</th>
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1. Male [ ] Female [ ]

2. Date of birth: [ ] [ ] [ ]

3. Name of parent or guardian you live with:

Last

First

Middle Initial

__________________________________________________________________________

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 2015:
   Grade  [ ] 9  [ ] 10  [ ] 11  [ ] 12

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
    □ Mathematics, grade 6  □ Mathematics, grade 7  □ Mathematics, grade 8  □ Algebra, 1st year
    □ Algebra, 2nd year  □ Geometry  □ Trigonometry  □ Computer Science I  □ Computer Science II
    □ Probability, Discrete Mathematics  □ Advanced Mathematics, Pre-Calculus  □ Statistics

    SCIENCE (Check all that apply)  Check here if there was a lab component
    □ Science, grade 6  □ Science, grade 7  □ Science, grade 8  □ Biological, Environmental, Life Sciences
    □ Chemistry  □ Physics  □ Physical Science  □ Earth/Space Sciences  □ Advanced Science, AP Science
    □ Calculus  □ AP Calculus  □ AP Physics

11. What is your approximate average grade this year in all subjects combined?
    Classes
    Not Graded  A  B  C  D  F
    [ ]  [ ]  [ ]  [ ]  [ ]
12. For each of the school subjects listed below, mark the statement that best describes your grades from sixth grade until now.

<table>
<thead>
<tr>
<th>SUBJECT</th>
<th>MOSTLY A’S (90-100%)</th>
<th>MOSTLY B’S (80-89%)</th>
<th>MOSTLY C’S (70-79%)</th>
<th>MOSTLY D’S (60-69%)</th>
<th>MY CLASSES ARE NOT GRADED</th>
</tr>
</thead>
<tbody>
<tr>
<td>ENGLISH</td>
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<tr>
<td>MATHEMATICS</td>
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<tr>
<td>SCIENCE</td>
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<tr>
<td>SOCIAL STUDIES</td>
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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)

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

16. How certain are you of your FIRST CHOICE of major in question #16 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?
- 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.