

# Laboratory for Laser Energetics

## High School Summer Research Program—Application Form 8 July to 30 August 2019

PLEASE **FULLY** COMPLETE AND RETURN THIS FORM TO:

DR. R. STEPHEN CRAXTON  
SUMMER HIGH SCHOOL RESEARCH PROGRAM  
UNIVERSITY OF ROCHESTER  
LABORATORY FOR LASER ENERGETICS  
250 EAST RIVER ROAD  
ROCHESTER, NEW YORK 14623-1299

**DEADLINE: Applications must be received by 5 PM on 18 MARCH 2019**

First Name \_\_\_\_\_

Last Name \_\_\_\_\_

Address \_\_\_\_\_

City \_\_\_\_\_ State \_\_\_\_\_ Zip \_\_\_\_\_

**Citizenship** U.S. Citizen Yes ☐ No ☐ (Note: U.S. citizenship required. **You MUST complete this question.**)

Home Telephone (\_\_\_\_)\_\_\_\_—\_\_\_\_\_ Mobile Telephone (optional) (\_\_\_\_)\_\_\_\_—\_\_\_\_\_  
e-mail (**NOTE:** most communication will be via e-mail) \_\_\_\_\_

1. Male ☐ Female ☐ 2. Date of Birth \_\_\_\_\_  
month day year

3. Name of a parent or guardian you live with:

\_\_\_\_\_  
Last First Middle

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 are enrolled in at this school (2018-2019 school year).

6. Rank in terms of who 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

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

☐ Extremely interested ☐ Very interested ☐ Somewhat interested ☐ Not very interested

8. Check all of the following subjects that you have completed or are currently taking. Please also 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 Programming	<input type="checkbox"/>	<input type="checkbox"/> Earth/Space Sciences	<input type="checkbox"/>
<input type="checkbox"/> Probability, Discrete Mathematics	<input type="checkbox"/>	<input type="checkbox"/> Advanced Science, AP Science	<input type="checkbox"/>
<input type="checkbox"/> Advanced Mathematics, Pre-Calculus	<input type="checkbox"/>	(specify) _____	
<input type="checkbox"/> Calculus	<input type="checkbox"/>	<input type="checkbox"/> Other (specify) _____	<input type="checkbox"/>
<input type="checkbox"/> AP Calculus	<input type="checkbox"/>		
<input type="checkbox"/> Other (specify) _____	<input type="checkbox"/>		

9. What is your approximate average this school year in all subjects combined?

A B C D F (Circle one)

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

	ENGLISH	MATHEMATICS	SCIENCE	SOCIAL STUDIES
Mostly A's (a numerical average of 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"/>

11. How likely is it that you will become a scientist, engineer, or mathematician in the future?

☐ Better than 50% chance ☐ 50% Chance ☐ Less than 50% chance

12. 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

13. 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 - Foreign Languages and Classical Languages |
| 02 - Architecture and Environmental Design        | 14 - Health Professions                        |
| 03 - Astronomy                                    | 15 - Home Economics                            |
| 04 - Biological and Life Sciences                 | 16 - Language and Literature                   |
| 05 - Business and Commerce                        | 17 - Library Science                           |
| 06 - Chemistry                                    | 18 - Mathematics                               |
| 07 - Communications (Advertising, Business, etc.) | 19 - Military Sciences                         |
| 08 - Computer Technology                          | 20 - Philosophy, Religion, and Theology        |
| 09 - Computer Science                             | 21 - Physics                                   |
| 10 - Earth Sciences and Geology                   | 22 - Social Sciences                           |
| 11 - Education                                    | 23 - Technical and Vocational                  |
| 12 - Engineering and Engineering Technologies     | 24 - Other, Specify _____                      |

14. How certain are you of your FIRST CHOICE of major in question #13 above?

☐ Very Certain

☐ Fairly Certain

☐ Not Certain

15. Indicate below the address of a person who will always know how we can contact you in the future for possible follow-up questions.

Name \_\_\_\_\_

Relationship \_\_\_\_\_

Address \_\_\_\_\_  
\_\_\_\_\_

City \_\_\_\_\_

State \_\_\_\_\_

Zip \_\_\_\_\_

Telephone Number (\_\_\_\_)\_\_\_\_-\_\_\_\_ (Home)

(\_\_\_\_)\_\_\_\_-\_\_\_\_ (Work)

16. (Response to this question is strictly voluntary.) Are you:

☐ White (not of Hispanic origin)

☐ Hispanic

☐ Asian

☐ Black (not of Hispanic origin)

☐ American Indian or Alaskan Native

☐ Pacific Islander

☐ Other (Specify)

- **Check list** A complete application must include the following:
  - Application form
  - Letter indicating student's desire to participate in the program
  - Essay describing student's interest in science and technology, and future goals
  - Letter of recommendation from a science or math teacher
  - Copy of transcript (grades 9–present)
  - Copy of student's most recent report card.
- **Reminder** Students must be available to start on the first day of the program.

**Note:** All complete applications will be promptly acknowledged. If the student does not receive this acknowledgement it may be because the transcripts or letter of recommendation have not been received. **It is the student's responsibility to make sure that all items in the above list are received on time.**