

CORNING

Summer Science Research Experience Application

**Technology Community Office of STEM
CORNING
SP FR 02 10
Corning, NY 14831**

Application Deadline: March 30, 2018

This form should be completed in Microsoft Word and then signed by the applicant and a parent or guardian. Return the completed form and copies of all supporting materials to: OfficeOfSTEM@corning.com by March 30, 2018



2018 SUMMER SCIENCE RESEARCH EXPERIENCE July 6 – August 17, 2018

APPLICATION DEADLINE: March 30, 2018

CORNING's Technology Community Office of STEM is pleased to announce the 2018 Summer Science Research (SSR) Experience **for rising High School seniors** (students who will finish the 11th grade in the spring of 2018).

This experience, which is unpaid, is designed to allow students who demonstrate a high interest and competency in science, technology, engineering and math (STEM) the opportunity to enrich their skills through practical application in a real world setting. Students are matched with a supervisor/mentor in one of CORNING's Research, Development or Engineering laboratories and work on real world projects for a period of six to eight weeks in the summer. The researcher is expected to assume responsibility for an experimental process that contributes to the overall research goals of the laboratory site. Moreover, the student may be presented with the opportunity to develop successful modifications that improve process and outcome. Interns are selected on the basis of interest, aptitude, experience in basic laboratory techniques, and social maturity. Students are matched with mentors based on mutual interest and student experience. Throughout the summer, researchers work onsite in their mentors' labs or work sites, learning and participating in the ongoing work of the lab. The student must also make a formal presentation that describes the research or investigation with which he/she is involved; the presentation is reviewed and approved by the student's mentor.

A student is eligible apply for an Office of STEM Summer Science Research Experience if:

- S/he is currently enrolled as a student in one of the Greater Southern Tier's (GST's) component school districts. (Waivers may be given to non-GST students but are not guaranteed.);
- S/he is currently completing the 11th grade (Junior year) in High School;
- S/he has a track record of demonstrated academic achievement and commitment;
- S/he will have successfully completed Regents Chemistry by June 30, 2018;
- Will have completed Corning's 1-weeks Summer Science Experience (SSE) for High Schoolers by June 30, 2018

Note: Candidates who are selected for the SSR but haven't completed the SSE prior to 2018 **must** do so before starting the SSR experience. The 2018 SSE will take place in late June, 2018 at Corning's Sullivan Park Research and Development facility. SSE applications will be available beginning in April.

REQUIREMENTS: Applicants must submit –

- A completed application form;
- A current academic transcript. (Submission of standardized test scores is encouraged but not required);
- Two letters of recommendation from science or mathematics teachers currently working at their High School (at least one of whom is the student's current teacher);
- A personal statement

ADMISSIONS:

Based on the pool of eligible applicants, top candidates will be selected for a personal interview. Interview notices will be dispatched by April 13, 2018. Tentatively, **Interviews will take place on Tuesday, April 24, 2018** at Corning Incorporated's Sullivan Park facility. Students must be available to interview at the time assigned to them. There will be a **mandatory pre-interview meeting** for all candidates selected for interviews on April 19, 2018 (tentative) at 7PM at the Corning-Painted Post Middle School. All applicants should hold this time on their calendars in advance so that if selected to interview they won't have a conflict with attending.

PROCEDURE:

Final selection of participants will be made after the personal interview. Candidates will be notified of selection results by May 4, 2018.

Prior to the start of the experience, each student will be informed of the details of their placement and will be responsible for attending an introductory meeting with their Corning Incorporated mentor. At the meeting, program arrangements will be discussed and work schedules will be finalized. Note: Researchers are expected to work 40 hours per week at the research site. The summer 2018 experience will begin on July 8th and continue through August 17th. **Travel to work sites is required and is the responsibility of the intern.**

PLEASE SEND APPLICATIONS AND SUPPORTING DOCUMENTATION TO: OfficeOfSTEM@corning.com

SUMMER SCIENCE RESEARCH EXPERIENCE APPLICATION

First Name: _____ Last Name: _____ M.I. _____

Address: _____

City: _____ State: _____ Zip Code _____

Telephone: _____ E-mail: _____

Gender: (please circle one) M F

Birth Date: _____ Grade Level as of May, 2018: _____

Mother/Guardian: _____ Daytime Phone: _____

Father/Guardian: _____ Daytime Phone: _____

School Information

Name of School: _____

Address: _____

City: _____ State: _____ Zip Code: _____

Telephone: _____

Teachers from whom you have requested recommendations:

Name: _____ Subject: _____

Name: _____ Subject: _____

Additional Information:

Please indicate three fields you'd prefer for your internship placement:

Biochemistry Biology Chemistry Computer Science Environmental Science

Engineering Earth Science Mathematics Physics Psychology

Are you willing/able to travel to a site outside of your County? Yes No

Please indicate your academic and laboratory experience:

Subject studied	Year completed	Laboratory experience	Lab Hours per week
Regents Biology	yes <input type="checkbox"/> no <input type="checkbox"/>	_____ yes <input type="checkbox"/> no <input type="checkbox"/>	_____
Regents Chemistry	yes <input type="checkbox"/> no <input type="checkbox"/>	_____ yes <input type="checkbox"/> no <input type="checkbox"/>	_____
Regents Physics	yes <input type="checkbox"/> no <input type="checkbox"/>	_____ yes <input type="checkbox"/> no <input type="checkbox"/>	_____
Regents Earth Sci.	yes <input type="checkbox"/> no <input type="checkbox"/>	_____ yes <input type="checkbox"/> no <input type="checkbox"/>	_____
IB/AP/College Biology	yes <input type="checkbox"/> no <input type="checkbox"/>	_____ yes <input type="checkbox"/> no <input type="checkbox"/>	_____
IB/AP/College Chem.	yes <input type="checkbox"/> no <input type="checkbox"/>	_____ yes <input type="checkbox"/> no <input type="checkbox"/>	_____
IB/AP/College Physics	yes <input type="checkbox"/> no <input type="checkbox"/>	_____ yes <input type="checkbox"/> no <input type="checkbox"/>	_____
IB/AP/College Math	yes <input type="checkbox"/> no <input type="checkbox"/>	_____ yes <input type="checkbox"/> no <input type="checkbox"/>	_____
AP/College Comp. Sci.	yes <input type="checkbox"/> no <input type="checkbox"/>	_____ yes <input type="checkbox"/> no <input type="checkbox"/>	_____

What year did/will you complete Corning's 1-week Summer Science Experience (with Dr. Tong)? _____

Other Laboratory/Internship Experiences (outside of school): _____

Describe computer experience/knowledge of programming languages: _____

List all full and part-time jobs you have had:

Position	Employer	Dates	Hours/Week

Brief Questions

Please answer the following questions (just type your response at the end of each question/request below). Your responses should be brief but complete.

1. Why do you want to participate in the Summer Science Research Program?
2. List all hobbies, volunteer, and extracurricular activities. Include those that demonstrate your interest and ability to participate in scientific research.
3. Which of the above activities is/are most important or has/have had the most impact on you?
4. What are your long-range career goals?
5. List the last few books or articles you have read on your own (not for a school assignment). Which one was the most interesting and why?

Personal Statement

Answer the following question. (Your statement should be approximately 250 words.)

If you could interview a famous engineer, inventor, mathematician, or scientist, living or dead, who would it be? Why did you choose this person, and what would you want to talk about?

Parent/Student Commitment

The following must be completed by both the student and their parent/guardian:

I, _____, certify that the information on this form has been provided in consultation with my parent or guardian. If selected, I will fulfill all requirements of the Summer Science Research Program. I understand that internship placement is at the discretion of the program staff, and that specific requests are not guaranteed.

Signature of Student: _____ Date: _____

Signature of Parent/Guardian: _____ Date: _____