

Support Services for S-STEM Scholars

How will S-STEM scholars be mentored ?

S-STEM scholars will be closely monitored, mentored and advised throughout their college years. They will receive faculty and peer tutoring, academic counseling, career advising, professional development services and access to other resources to ensure satisfactory performance of the S-STEM scholars and successful completion of degrees in a timely fashion.

What peer support structures and infrastructures will be available to S-STEM scholars ?

S-STEM scholars will be integrated into existing groups of physics and chemistry majors by means of frequent informal science-oriented activities, social activities and mutual help sessions. Disque Hall, which houses the Physics and Chemistry Departments, contains several well-used lounges and study areas restricted to physics or chemistry majors. There is also a comfortable, walk-in resource room staffed by graduate student and faculty tutors.

S-STEM Scholarship Applications

High school seniors who are interested in S-STEM scholarships must not only meet the need-based criterion but also must take SAT or ACT exams and must formally apply to Drexel. Through a series of informational meetings and workshops, students and parents will be coached through the process of applying to Drexel and applying for financial aid.

S-STEM Scholarship applicants and their parents or guardians must attend the S-STEM Information Sessions. To obtain an Information Application Packet, please refer to the Drexel S-STEM Program Contact Information on the next page.



About Drexel University

Founded in 1891 by financier and philanthropist Anthony Drexel, Drexel University holds a unique place in higher education as Philadelphia's technological, cooperative education university. Drexel is nationally known for its co-op program, which gives students real-world experience in private companies or government agencies while earning money.

Drexel has the nation's largest private undergraduate engineering school and largest private medical school. Drexel University is ranked by the U.S. News and World Reports as one of the nation's best places to pursue a doctoral (Ph.D.) degree.



Program Directors:

Prof. Roberto Ramos (Physics)

Prof. Lynn Penn (Chemistry)

For Additional Program Information, visit:

<http://www.physics.drexel.edu/sstem/>

For an **Information Packet**, contact and give your mailing address to

Ms. Jacqueline Sampson

Drexel S-STEM Program

816 Disque Hall

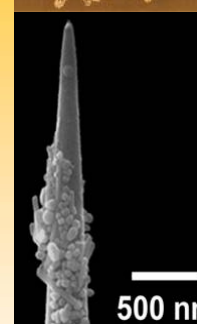
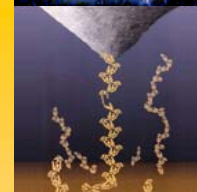
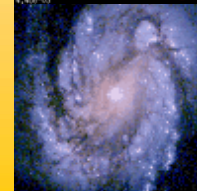
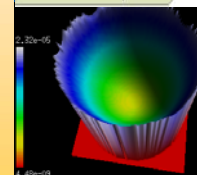
Drexel University

3141 Chestnut Street

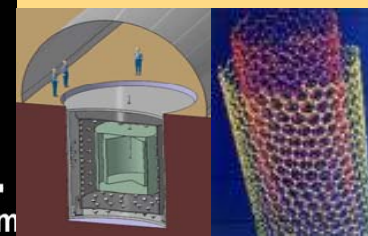
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S-STEM Scholarships in Physics and Chemistry at Drexel University



www.physics.drexel.edu/sstem/

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The Drexel S-STEM Scholarship Program

What is the Drexel S-STEM Scholarship ?

Drexel University announces the establishment of a scholarship program to assist academically talented, financially needy students in the Philadelphia area to earn B.S. degrees in *Physics* or *Chemistry*. This program, referred to by the acronym S-STEM (for scholarships in science, technology, engineering, and mathematics), is funded by the National Science Foundation and will provide \$40,000, pro-rated over five years, to 10 selected students who enter Drexel and remain enrolled as full-time physics or chemistry majors in good standing.

Am I eligible to apply for the scholarship ?

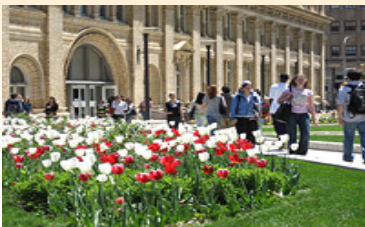
Applicants must be U. S. citizens or permanent residents, and must meet the criterion of financial need as defined by the U.S. Dept. of Education.

Drexel is too expensive to attend. How can a financially needy student afford to study at Drexel ?

Drexel University, through the Office of Financial Aid, offers students financial aid packages typically consisting of a mixture of scholarships, grants, work-study monies and loans. This makes it possible for financially-needy students to attend Drexel.

Will this scholarship affect Drexel's financial package ?

The scholarship awarded to the student by the S-STEM Program will be in addition to, and will not detract from, the financial aid package. In other words, the S-STEM scholarship funds are **additional** funds intended to reduce the financial burden of pursuing a BS degree at Drexel.



Studying Physics and Chemistry at Drexel

Chemistry majors enjoy a *light moment* while purifying compounds in an organic chemistry class.



Students adjust a mass spectrometer. S-STEM scholars will be involved in high-tech research.



S-STEM scholars have access to renovated student lounges to study, relax and socialize.



A freshman physics major measures superconductivity using an oscilloscope. S-STEM scholars will gain practical skills valuable to future employers.



Physics majors can observe the sky using Drexel's 16" telescope, the largest publicly-accessible telescope in Philadelphia.



S-STEM scholars will be closely supported by faculty and peer mentors/tutors and receive academic and career advising.

Careers in Physics and Chemistry

Why study Physics and Chemistry ?

Physics and chemistry majors acquire a solid understanding of physical principles, problem-solving strategies, mathematical skills and broad experimental training. Physics majors learn to work with high-tech tools such as lasers, atomic force microscopes, scanning tunneling microscopes, fiber-optics, cryogenics, nanotechnology, particle detectors, superconductors and supercomputers. Chemistry majors learn to work with high-tech tools such as infrared and ultraviolet spectrometers, fluorescence spectrometers, gas and liquid chromatographs, mass spectrometers, and nuclear magnetic resonance spectrometers. These skills prepare students for careers in private industry, government agencies and academia.

What careers await Drexel Physics and Chemistry graduates ?

A Drexel education in physics or chemistry prepares students for professional careers in the fields of biophysics, medical physics, pharmaceutical sciences, meteorology, astronomy, electronic device design and manufacture, chemical processing, information technology, financial analysis and many others. Drexel graduates are sought after and hired by universities, government laboratories (NASA, National Institute of Health), semiconductor companies, materials companies (Rohm and Haas), pharmaceutical companies (Merck) and defense contractors (Raytheon).

What is the Drexel co-op program ?

Drexel is **nationally known for its unique co-op system**, through which students mix 6-month periods of paid, full-time physics- or chemistry-related work at national labs, private industry and research universities with their studies. The co-op experience provides earnings and real-world experience to the student prior to graduation and often leads to permanent positions.

Getting paid to do science:

According to a 2005 survey by the Sloan Career Cornerstone Center, the average annual salary for holders of bachelors degrees in physics and chemistry are \$72,000 and \$64,000, respectively.