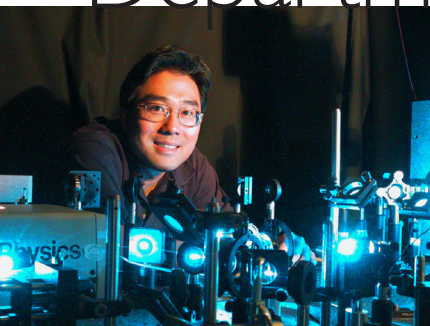




Department of Chemistry



Chemistry is the science that studies matter, the stuff of which all things are made.

Chemists study the composition, structure, properties, and reactions of matter on the molecular scale and larger. Chemists also discover and synthesize entirely new materials.

Modern chemistry touches on many other fields of science and engineering.

AREAS OF RESEARCH INCLUDE:

Analytical chemistry
Bioanalytical chemistry
Bioinorganic chemistry
Bioorganic chemistry
Biophysical chemistry
Chemical crystallography
Computational chemistry
Electronic spectroscopy
Environmental chemistry
Inorganic chemistry
Laser spectroscopy
Mass spectrometry
Materials chemistry
Nanotechnology
NMR spectroscopy
Opto-electronics
Organic chemistry
Organic synthesis
Organometallic chemistry
Photonics
Physical chemistry
Process analytical chemistry
Surface science
Theoretical chemistry

Research Highlights

Chemistry had grant and contract expenditures of about \$20 million during the most recent fiscal year for which data are available. The department is the home of three Centers: the Center for Process Analytical Chemistry (CPAC), the Science and Technology Center for Materials and Devices for Information Technology Research (CMDITR), and the newly established Center for Enabling New Technologies through Catalysis (CENTC)—the first and only center of its kind in the country.

Faculty research highlights include:

- ▶ design of the world's most sensitive calorimeter for measuring the strength of chemical bonding on surfaces, then applied to clarify numerous surface chemical reactions of importance in catalysis and microelectronics fabrication;
- ▶ development of technology that played a pivotal role in the human genome project;
- ▶ development of a mass spectrometry technique for newborn screening of lysosomal storage diseases, which is being used in newborn screening labs worldwide; and
- ▶ a new fundamental understanding of metal-mediated oxidation reactions, processes that play important roles from biological chemistry to large-scale industrial production.

Faculty

The Department of Chemistry has 40 faculty who have received a large number of awards from a wide variety of organizations. Faculty honors include:

AAAS Fellows	National Medal of Science
ACS Awards	NIH Pioneer Award
Cottrell Scholars	NSF CAREER Awards
Dreyfus New Faculty Awards	NSF Special Creativity Awards
Dreyfus Teacher-Scholar Awards	Packard Fellowship
Guggenheim Fellowships	Pew Scholar
Keck Distinguished Young Scholar	PECASE Awards
National Academy of Science	Sloan Fellowships

Education

The Department of Chemistry runs one of the largest chemistry and biochemistry undergraduate degree programs in the nation. The department also offers a chemistry minor, and master's and Ph.D. degrees.

The Department serves many non-majors, with more than 3,000 undergraduates taking at least one introductory chemistry course annually. It has the largest undergraduate instructional laboratory program at the UW.

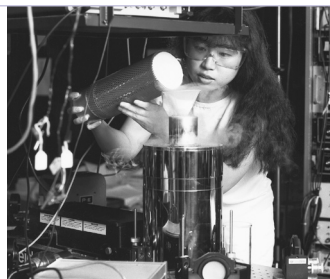
A large fraction of our undergraduate majors enrich their educational experience through participation in undergraduate research with our faculty.

Supporting Chemistry at the UW

A student wishing to study and undertake cutting-edge research in chemistry in the northwest U.S. has but a small number of options. UW Chemistry is the premier choice. Fortunately we are a public institution that charges students a relatively modest tuition. But providing an education in chemistry to these students is extremely expensive. We are increasingly reliant upon private support to maintain our high-quality educational and research programs. Please contact us if you are interested in making a contribution in support of our programs.

Annual Fund gifts to our "Friends of Chemistry" account are used to meet a wide variety of needs for which state-derived funding is unavailable. Examples include our undergraduate and graduate student organizations; awards to students, staff, and faculty; and department-wide events such as our annual graduation ceremony and our picnic for faculty, staff, and students.

Endowed Funds provide partial support for virtually all of the department's activities. These include undergraduate and graduate scholarships and awards, and faculty support that helps us retain talented faculty being sought by other universities. While the vast majority of endowment-derived funds are invested in students and faculty, the relative urgency of the need in these areas shifts over time. For this reason, the most useful endowments are those that can be spent at the discretion of the Chair of the Department to support any of these needs.



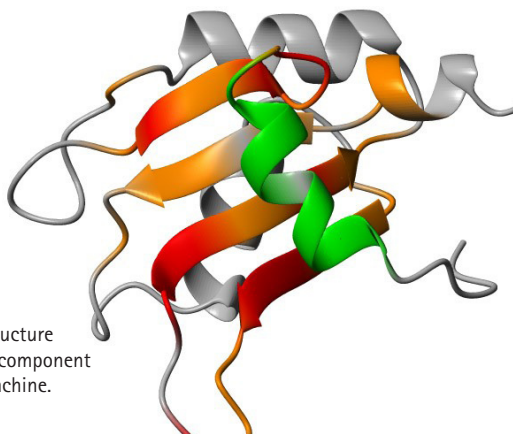
Fiscal Information

Research and Instruction Budget: \$28.6 million

State support: \$8 million

Grant and contract support: \$20 million

Endowment-derived support: \$650,000



The three-dimensional structure of CstF-64 protein, a key component of the RNA processing machine.

STUDENTS

1,450 undergraduate majors

225 graduate students

60 postdoctoral research associates

DEGREES AWARDED ANNUALLY

280 Bachelor's degrees

30-40 PhD degrees

STUDENT AWARDS (SINCE 2004)

President's Medals

Junior Medal

Dean's Medal in the Sciences

Dean's Medal in the Humanities

Goldwater Scholarships

Gates Cambridge Scholarship

Marshall Scholarship

Churchill Scholarship

CONTACT INFORMATION

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