

Financial Support

Support for 8 predoctoral, 6 postdoctoral, and 4 short-term research trainees is provided by a grant from the National Human Genome Research Institute. Predoctoral traineeships are generally awarded for a three-year period, and postdoctoral traineeships are generally awarded for a two to three-year period. Short-term training positions are available for graduate students enrolled in a Ph.D. program and trained in physical or computational sciences who wish to spend three to six months in a molecular biology laboratory in order to get acquainted with the field. We welcome applications from qualified women and minority group members for traineeships.

For NHGRI support, predoctoral students must be accepted into an affiliated Ph.D. program. All supported trainees must be permanent residents or U.S. citizens. Information about individual graduate programs can be obtained from the relevant biological and computational departments or from the Genomic Sciences Training Program by contacting:

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Photos by Jeff Miller and Michael Forster Rothbart/UW-Madison University Communications



**Genomic
Sciences
Training
Program**

University of
Wisconsin—
Madison

The University

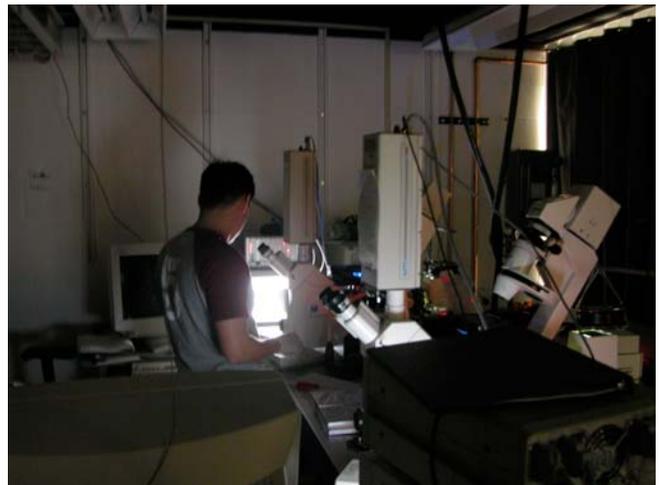
The University of Wisconsin at Madison was established in 1848 and is the largest of the 13 universities that make up the University of Wisconsin System. The nearly 1000 acre campus is located on the shore of Lake Mendota within one mile of the center of the City of Madison and the State Capitol Building. This public, land-grant college has an undergraduate enrollment of over 30,000 and also serves nearly 10,000 graduate and professional students, for a total enrollment of about 40,000 students. The University is consistently rated as one of the top 10 universities in the nation in overall teaching and research excellence and in the ability to attract federal research funding.

The College of Letters and Science, College of Engineering, Medical School, School of Veterinary Medicine, and a basic science-oriented College of Agriculture and Life Sciences are located on the Madison campus, resulting in a strength in the biological sciences that is unsurpassed anywhere. Research scientists on the campus are located in over 125 academic departments and may also participate in a number of interdisciplinary programs

The attractive physical location of the campus, the diversity of the student population, and the wide range of social, athletic, and cultural events available on a large campus make the UW-Madison an enjoyable place to carry out graduate studies.

The Training Program

The predoctoral students in the Genomic Sciences Training Program will participate in a program of interdisciplinary coursework designed to give them background in aspects of biological and physical science, chemistry, engineering, computer science, and statistics that relate to the genomic sciences. Participating students will be required to obtain basic knowledge and fundamental awareness of multidisciplinary approaches to problem definition and solving in genomic sciences from the viewpoint of the different disciplines. The GSTP Trainee Advisory Committee will review each trainee's course curriculum and expects that approximately three courses will be taken to fulfill the core curriculum of GSTP. All trainees will also participate in a weekly GSTP seminar for the duration of their fellowship, in a one semester Scientific Ethics course, and in a genomics journal club.

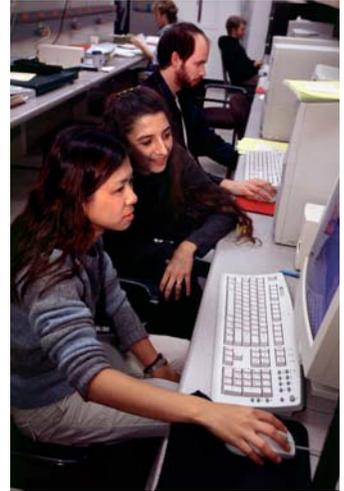


Genomic Sciences Training Program

The Genomic Sciences Training Program (GSTP) is a new interdisciplinary predoctoral and postdoctoral training program at the University of Wisconsin-Madison, funded by a grant from the National Institutes of Health/National Human Genome Research Institute. Additional support is provided by the UW Graduate School and the Genome Center/Biotechnology Center.

The mission of the GSTP is to train the next generation of genomicists, enabling them to gain strengths to bridge multiple disciplines needed for an integrated approach to solving complex problems in genomics research. These disciplines include chemistry, engineering, computer science, biostatistics, genetics, biochemistry, molecular medicine, and molecular biology.

Predocorral students who are eligible for this interdisciplinary training include those in Ph.D. programs in chemistry, genetics, computer sciences, statistics, biochemistry, engineering, or other computational and biological science disciplines. Currently, there are 32 different faculty trainers in 15 departments for students to choose from. All trainees will also have a secondary mentor from a complementary discipline. For a list of the trainers and description of GSTP, see www.biotech.wisc.edu/gstp.



Life in Madison

The City of Madison is the state capital and, with a population of over 200,000, is the state's second-largest city. Located mainly on an isthmus between two lakes, it is 150 miles northwest of Chicago and about 70 miles west of Milwaukee.

Madison and the Southern Wisconsin area offer excellent facilities and opportunities for extracurricular activities. Access to the four lakes within the city provides for ice-boating, ice-skating, and ice-fishing in winter, and boating, sailing, canoeing, swimming, water skiing, and fishing in the summer. Tennis, biking, and golfing are popular summer sports, and cross-country and downhill skiing are common winter activities.

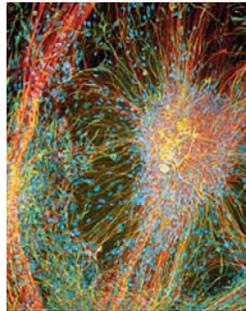
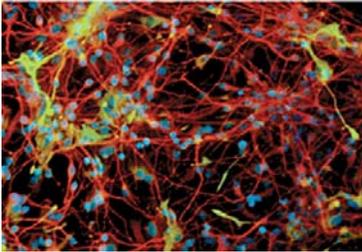
The University of Wisconsin–Madison offers excellent indoor campus facilities for swimming, tennis, racquetball, squash, and ice-skating.

The Madison community offers a wonderful diversity of cultural activities ranging from classic opera, theater, concerts, and dance, to progressive music, art, and local entertainment. Many events are free or affordable for students.



Ph.D. Degree Options

Trainees receive Ph.D. degrees in a chosen major, such as Genetics, Chemical Engineering, Computer Science, or Statistics or in a cross-departmental Ph.D. program such as Cellular and Molecular Biology or Biophysics. Their in-depth training will be in their home, degree-granting departments.



GSTP Seminar Series

The Genomic Sciences Training Program seminar series provides an opportunity for fellow trainees to describe and discuss their research. These seminars, plus presentations from other speakers from academics or the private sector, expose students to new research advances within and outside their area of expertise and allows participants the opportunity to meet with other interested colleagues.

The Research Environment

The University of Wisconsin-Madison ranks among the nation's top universities. It ranks first in the U.S. among public universities in the amount of research and development funds received from all sources, and first in the U.S. among all universities in the amount of funds received from non-military sources. Its faculty and former faculty include 17 Nobel Laureates, 50 members of the National Academy of Sciences, 17 members of the National Academy of Engineering, 8 members of the National Academy of Medicine and 10 National Medals of Science.

The UW-Madison has one of the largest university biological research communities in the world, with more than 700 faculty, 1,500 academic staff, 700 postdoctoral fellows, 2,500 graduate students, and thousands of undergraduates. Relevant departments at the UW-Madison that rank among the top few in the country include Bacteriology, Biochemistry, Biomedical Engineering, Biomolecular Chemistry, Chemical and Biological Engineering, Chemistry, Computer Sciences, Genetics, Molecular Biology, Oncology and Statistics with Biostatistics and Medical Informatics. In addition, the UW-Madison houses a number of internationally recognized research centers and facilities, including the Genome Center, Biotechnology Center, Exploratory Center for Human Embryonic Stem Cell Research, Clinical Cancer Center, Integrated Microscopy Resource, Nuclear Magnetic Resonance Facility, Center for NanoTechnology, UW Comprehensive Cancer Center, Center for Eukaryotic Structural Genomics, Keck Center for Chemical Genomics, and Biotron.

