

Education in Nanotechnology

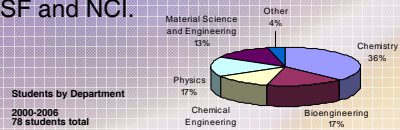
Center for Nanotechnology

University of Washington, Seattle, WA 98195

Graduate Fellowships

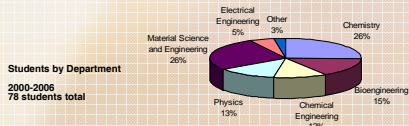
IGERT - Integrative Graduate Education and Research Traineeship

The IGERT offers competitive fellowships to graduate students who are US citizens or permanent residents, with attention to underrepresented groups. A key goal of the IGERT is to tailor students' educational experience to their future career goals in nanotechnology. Funded by NSF and NCI.



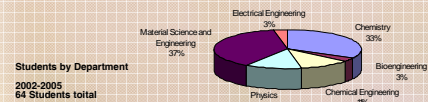
UIF - University Initiatives Fund

The UIF provides full or partial fellowships to eligible graduate students with no restriction on citizenship. The main goal of the UIF is to promote transforming collaborative research in nanoscience and technology. Funded by the University of Washington.



JIN - Joint Institute for Nanoscience

The JIN enhances research collaborations between Pacific Northwest National Laboratory and the University of Washington. Funds may be awarded for graduate student, postdoctoral fellow, or faculty salary, tuition, travel, and housing expenses. Supported by Pacific Northwest National Laboratory.



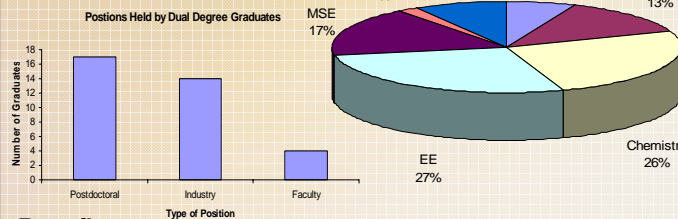
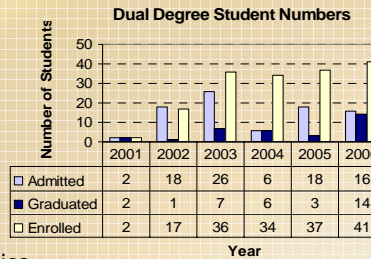
Jonsson International Exchange

Funds support graduate students and postdoctoral fellows for one or more quarters of nanotechnology research at Linköping University, Sweden. Supported by Jonsson International Exchange Fellowships.

Optional Ph.D. in Nanotechnology

In 2001 the University of Washington's Center for Nanotechnology launched the first national Ph.D. Program in Nanotechnology. The program has 33 graduates and 41 ongoing students are earning a dual Ph.D. in Nanotechnology and a field of science and engineering from one of 10 participating departments:

- Biochemistry
- Bioengineering
- Chemical Engineering
- Chemistry
- Electrical Engineering
- Genome Sciences
- Materials Science and Engineering
- Microbiology
- Physics
- Physiology and Biophysics



Benefits

- More than 80 active CNT faculty members with a broad range of research interests
- Over 75 nanotechnology-relevant courses offered by ten departments across three divisions
- A Nanotechnology Seminar Series that brings in speakers from around the world to the University of Washington
- An annual Nanoscale Science and Technology Workshop with PNNL that fosters interactions and collaborations within the Pacific Northwest nanotechnology community
- Student Symposia featuring CNT students' presentations that are tailored for a broad audience of peers
- A vibrant Nanotechnology and Nanoscience Student Association (NaNSA) that promotes cross-disciplinary networking with industry and academic speakers
- A student mentoring program in collaboration with the Center for Workforce Development

Other Programs

Research Experience for Undergraduates

The UW node of the National Nanotechnology Infrastructure Network (UW-NNIN) provides 10-week long, hands-on summer research projects to undergraduates from across the nation. All participants gather for a national research convocation where they present the results of their summer work.

Research Experience for Teachers

UW NNIN, in collaboration with GEMSEC (an NSF MRSEC) supports the active involvement of K-12 teachers in research to bring science, engineering, and technological innovation into classrooms. Over the past three summers, 15 teachers have participated in these laboratory learning experiences. Some of the materials developed have been published and are available on the CNT website and NNIN Education Portal. See: <http://www.nano.washington.edu/education/materials.html> & http://www.nnin.org/nnin_edu.html

Science For Success

This collaboration with the University of Washington Engineered Biomaterials (an NSF ERC) has enabled 46 disadvantaged high school students over the past three summers to experience four weeks of science on campus. CNT graduate students develop and deliver a week of nanotechnology programs. Some of the materials developed are posted on the CNT website and NNIN Education Portal. See: <http://www.nano.washington.edu/education/materials.html> & http://www.nnin.org/nnin_edu.html

Intensive Courses in Nanoscience and Nanotechnology

Pacific Northwest National Laboratory, in cooperation with Washington State University and a steering group of national educational institutions, offers an unprecedented series of courses that enhance education and research in nanotechnology to speed undergraduate and graduate entry into this exciting field. Supported by an NSF grant. See: <http://www.nano.washington.edu/pnnl/overview.html>



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