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Master of Chemistry in Analytical Chemistry

Master of Chemistry in Materials & Chemical Synthesis

Recognizing a need to produce competent employees who bring both scientific knowledge and professional skills to the workplace while addressing the needs of students who prefer a graduate experience different than a traditional academic-track education, educators in higher education established the Professional Science Master's degree (PSM). The PSM degree's innovative curriculum is based on a solid core of science courses coupled with the development of communication and business skills to produce a highly-skilled science professional increasingly in demand by business and industry.

According to the Council of Graduate Schools, there are more than 220 PSM programs in the U.S. being offered by over 110 institutions today. Disciplines range from physics, mathematics, biotechnology and chemistry to environmental sciences, bioinformatics and food science. Students can earn degrees in chemistry that focus on entrepreneurship, computational chemistry, industrial chemistry, applied chemistry and biochemistry, materials and chemical synthesis, and analytical chemistry.

Illinois Institute of Technology (IIT) was one of the first universities to establish a PSM degree in chemistry in 1996. Faculty member Walt Eisenberg, having come to academia from industry, had witnessed a gap in the education of chemists working in industry and saw there was a niche to be filled. Concurrently, the same trend was observed in other parts of the country and similar new programs, initiated by Sheila Tobias, co-author of *Rethinking Science as a Career*, were started across the country. The Alfred P. Sloan Foundation provided generous funding for many of the newly created programs. Continuing this philanthropic support, the U.S. government now funds individual- and statewide-PSM programs. The America COMPETES Act of 2007 authorized the National Science Foundation (NSF) to offer grants to four-year institutions in support PSM degrees with funds appropriated by The American Recovery and Reinvestment Act of 2009. The U.S. Department of Education also supported the development of PSM programs with their Fund for the Improvement of Postsecondary Education (FIPSE).

Employers choose PSM graduates for both their strong science background and their ability to exhibit problem-solving skills and leadership potential. A recent report from the National Governors Association titled "Degrees for What Jobs?" notes that "Professional Science Master's degrees . . . are a compelling example of curricula that educates scientists at the crossroads between scientific, business, and leaderships skills."

For more information on professional science master's degrees, visit www.npsma.org and www.sciencemasters.com.

Where IIT Master of Chemistry in Analytical Chemistry and
Master of Chemistry in Materials & Chemical Synthesis
Graduates are Employed



Abbott Laboratories
AGC Automotive
Akzo Nobel
Archer Daniels Midland
Argonne National Laboratory
Arlington Plating Company
Avon Products Inc.
BASF
Batelle Memorial Institute
Baxter Healthcare
BP Amoco
Canadian Food Inspection Agency (CFIA)
Conoco Phillips
Coral Chemical Co.
Gillette
Kraft Foods
Kraton Polymers
L'Oreal
Lancaster Laboratories
Monsanto
Motorola, Inc.
Nalco Company
NB Coatings (a subsidiary of Nippon Paint)
Nintendo of America
Panduit Corp.
Particle Technology Labs, Ltd.
Pharmacia
Proctor & Gamble - Cosmetics
Roxane Laboratories (a subsidiary of Boehringer Ingelheim)
Sanford Corp.
Sherwin Williams
Sterigenics
Sun Chemical Corp.
TEVA Pharmaceuticals
Tiarco Chemical
Trane
U.S. Air Force Research Laboratory
U.S. Armed Forces
U.S. Marine Corps.
U.S. Office of Naval Research
U.S. Pharmacopeia
Unilever
United States Gypsum Company (USG)
UOP
Valspar Corp.
Waters Corporation
Watson Laboratories Inc.
Weyerhaeuser Corp
Wm. Wrigley Jr. Company
Wyeth Research