

Professional Science Master's Programs

THE WORLDS OF SCIENCE AND BUSINESS ARE MERGING AND A NEW BREED OF SCIENTIST IS NECESSARY TO MAINTAIN AMERICA'S COMPETITIVE EDGE IN THE GLOBAL MARKETPLACE. THESE NEW SCIENTISTS ARE PROFESSIONAL SCIENCE MASTER'S (PSM) GRADUATES WHO HAVE THE ACADEMIC AND PROFESSIONAL SKILLS TO EFFECTIVELY BRIDGE SCIENCE AND BUSINESS.

What is a Professional Science Master's Degree?

The PSM is designed to prepare students with the scientific training necessary to advance and excel in science, while simultaneously developing highly valued business skills. Programs are characterized by "science-plus" curricula, combining rigorous graduate study in science or mathematics with skills-based coursework in management, policy, or law. PSM programs emphasize the written and verbal communication skills, leadership, and team-building required in professional settings. Instead of a thesis, most PSM degrees require a collaborative research project, as well as an internship in a business or the public sector. PSM graduates are equally as comfortable in the science lab as in the board room, court room, and other professional settings.

Program Examples

PSM Degree	Science/Technology Courses	+	Professional Skills
Applied Computing	Modeling, Network Design, Network Security, Simulation	+	Conflict Resolution, Negotiation, Presentation Skills, Project Management, Writing
Applied Industrial Mathematics	Differential Equations, Linear Algebra, Matrix Theory	+	Leadership, Organizational Decision Making, Strategic Human Resources Management
Bio/Pharmaceutical Discovery and Development	Clinical Biostatistics, Clinical Trial Design, Gene Expression Systems, Proteomics	+	Applied Entrepreneurship, Bioscience Business Strategy, Intellectual Property and Licensing, U.S. Regulatory Affairs
Forensic Science	Drug Chemistry/Toxicology, Molecular Biology, Quantum Chemistry	+	Case Law, Expert Witness Testimony, Formal Reports, Library Skills, Rules of Evidence

Why Mentor PSM Students and Hire PSM Graduates?

- **Interdisciplinary scientists.** PSM students receive advanced training at the cutting-edge interfaces of science and technology. The combination of science with professional skills and experience means PSM graduates require minimal additional training, saving employers time and money in professional development.
- **Excellent communicators.** PSM students are often trained in business management, conflict management and negotiation, writing, and presentation skills. The "science-plus" training prepares the PSM graduate to serve as the liaison between corporate research groups and business administration, or to even handle the job of both groups.
- **Innovative problem-solvers.** The PSM capstone experience is a team-oriented, multidisciplinary research project addressing challenges and opportunities in the real world. The PSM graduate's capstone and internship experiences prepare them to hit the ground running for your company.

Where can I find additional information?

Find out how you can get involved in PSM programs in your field and how PSM graduates can meet your workforce needs at www.sciencemasters.com.

Learn about the PSM initiative at www.cgsnet.org.

