Professional Science Master's Programs

In today's competitive global marketplace, the U.S. workforce needs expertly trained professionals who combine an advanced science, technology, engineering, mathematics and/or computer sciences education with expertise in communications, project management, ethics, and other professional skills that are in high demand. The Professional Science Master's (PSM) degree trains graduates who possess these skills and more.

What is a PSM Degree?

PSM degrees are unique professional degrees grounded in natural science, technology, engineering, mathematics and/or computational sciences. They are designed to prepare students for direct entry into careers in industry, business, government, or non-profit organizations.

PSM programs are multidisciplinary and may be interdisciplinary as well. They include professional skills such as business basics, policy, law, regulatory affairs, finance, organizational behavior, ethics, communication, and teamwork. An additional experiential learning component incorporates an internship and/or employer-based project that is tailored to the targeted employment sector.

PSM graduates are prepared to assume high-level careers in science that have a strong emphasis on skill areas such as management, policy, and entrepreneurship. PSM graduates generally progress rapidly toward leadership roles.

Where can I find additional information?

Learn about the degree background and companies that hire PSM graduates at www.sciencemasters.com

How does the PSM Enhance U.S. Competitiveness?

- **National Scope**: PSM programs aim to retain individuals in graduate education in STEM fields and prepare professionals for STEM careers that are in high demand.
- **Regional Strength**: Partnerships with local employers are integral to PSM programs, ensuring they remain responsive and adaptive to current and future workforce needs.
- **Institutional Innovation**: The interdisciplinary nature of the PSM program fosters collaboration between multiple departments and schools within colleges and universities and serves as a catalyst for innovative research and discovery.
- **Student Benefit**: PSM programs inspire students to remain in science, math, or technology fields, since competitive salaries and exciting opportunities await them upon completion of their degrees.
- **International Scope**: PSM programs are a response to the marketplace's call for increased innovation that leads to international competitiveness.

PSM Degree Examples

PSM Degree	STEM Courses		Professional Skills Development
Environmental Sciences	Environmental Chemistry, Environmental Systems Modeling, Hydrogeochemistry, Environmental Engineering	+	Business Communication Skills for Managers, Project Team Management, Environmental Risk Assessment
Applied Computing	Modeling, Network Design, Network Security, Simulation, Geographic Information Systems	+	Conflict Resolution, Negotiation, Project Management, Writing, Leadership
Bio/Pharmaceutical Discovery and Development	Clinical Biostatistics, Clinical Trial Design, Gene Expression Systems, Proteomics, Molecular Evolution, Experimental Immunology	+	Applied Entrepreneurship, Intellectual Property and Licensing, U.S. Regulatory Affairs, Project Management