

Professional Science Master's (PSM)

and

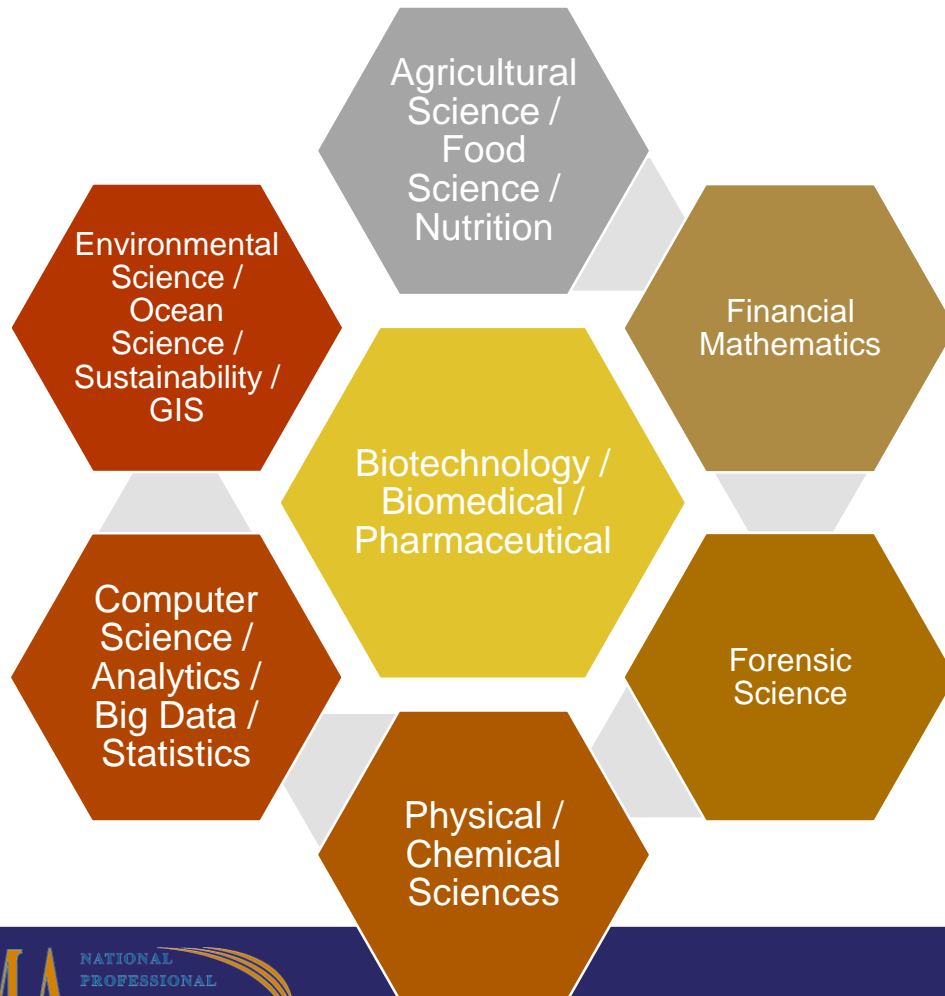
**National Professional Science Master's
Association (NPSMA)**

2018

What is a PSM degree?

- Terminal STEM degree at master's level
- Designed with employers to be responsive to their needs
- Emphasizes science plus professional skills
- Requires an industry-immersion experience, like internships or capstone projects

In what STEM areas are PSMs offered?



Areas that promise:

- Interdisciplinary careers
- Team-oriented environments
- Career advancement
- Emerging areas of science
- Opportunity to bring scientific discovery to the marketplace

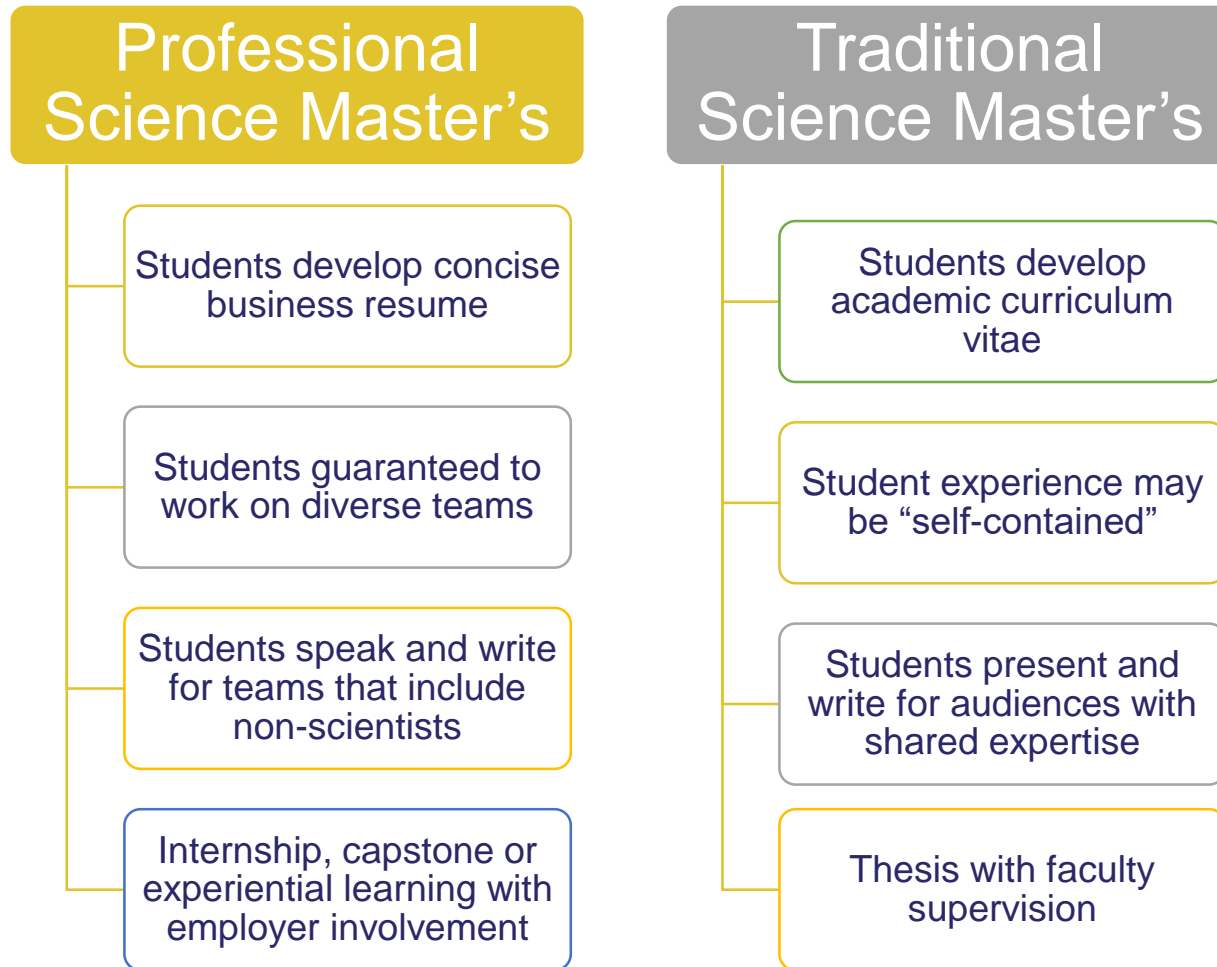
What do you mean by professional skills?



Delivered as:

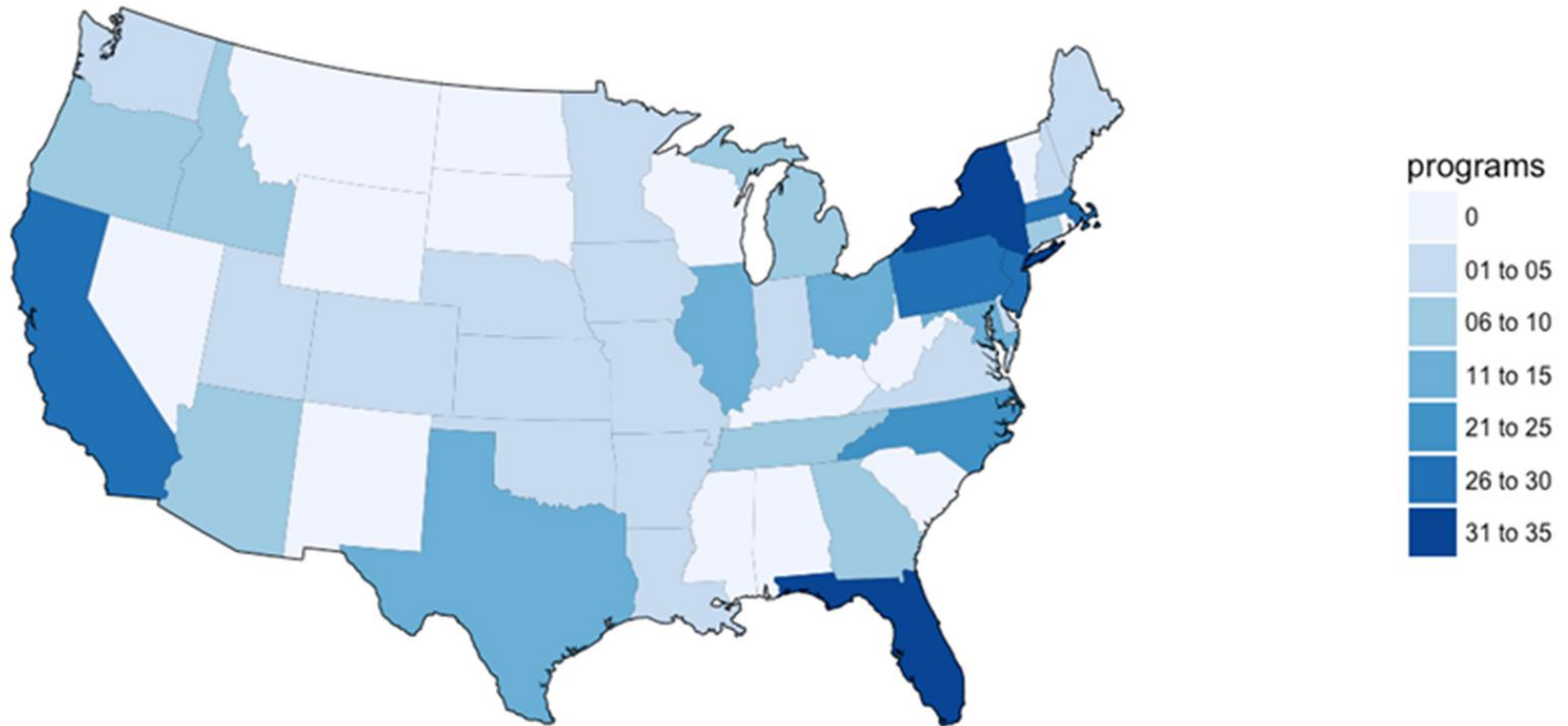
- Stand-alone courses online or face-to-face
- Modular add-ons
- Integrated content in STEM courses
- Cooperative efforts with other campus departments
- Cooperative efforts with employers as adjuncts, guest lecturers

Exactly how are PSMs different?



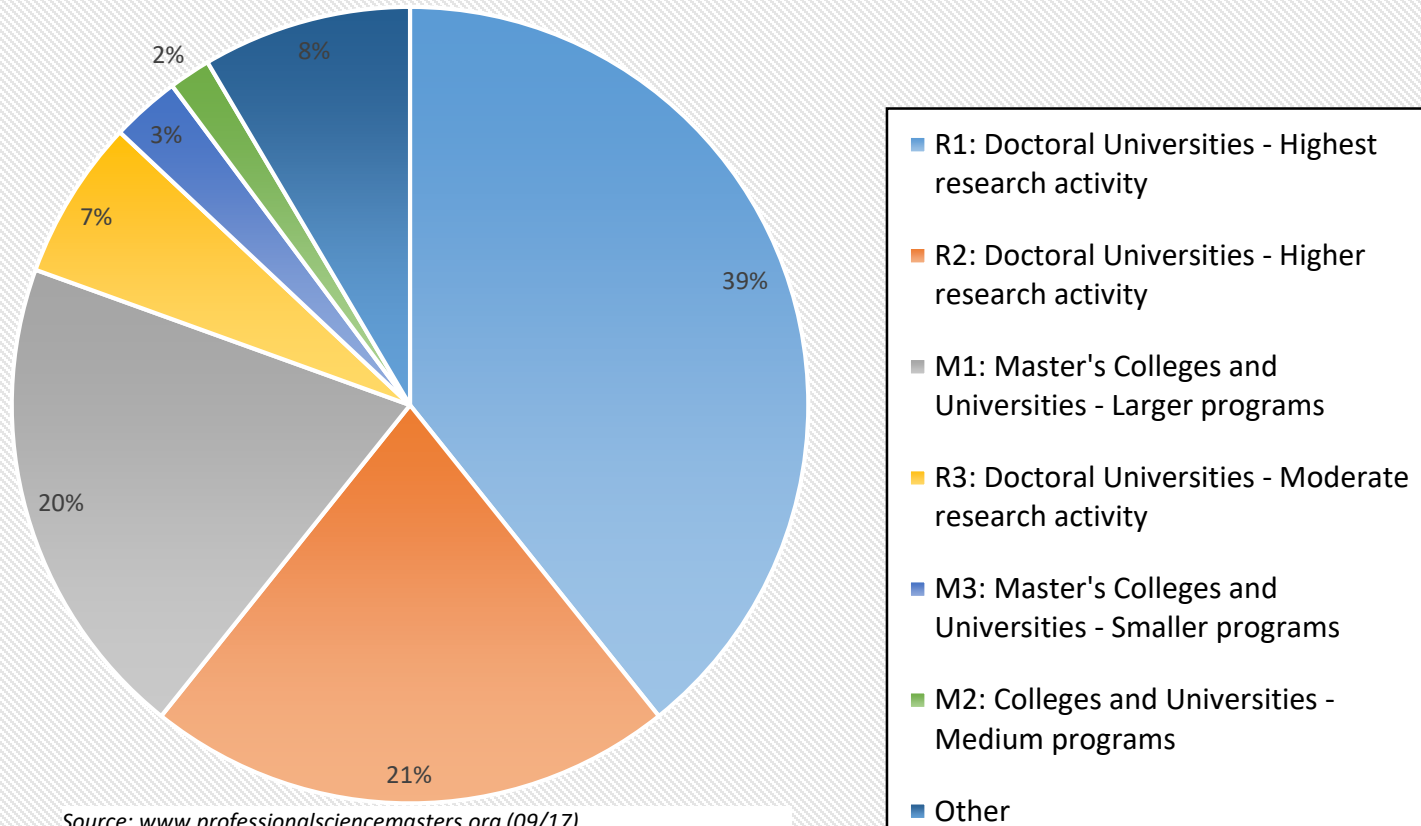
PSMs are global

PSM Programs at 165 academic institutions in the U.S. and internationally in Australia, South Korea and the United Kingdom

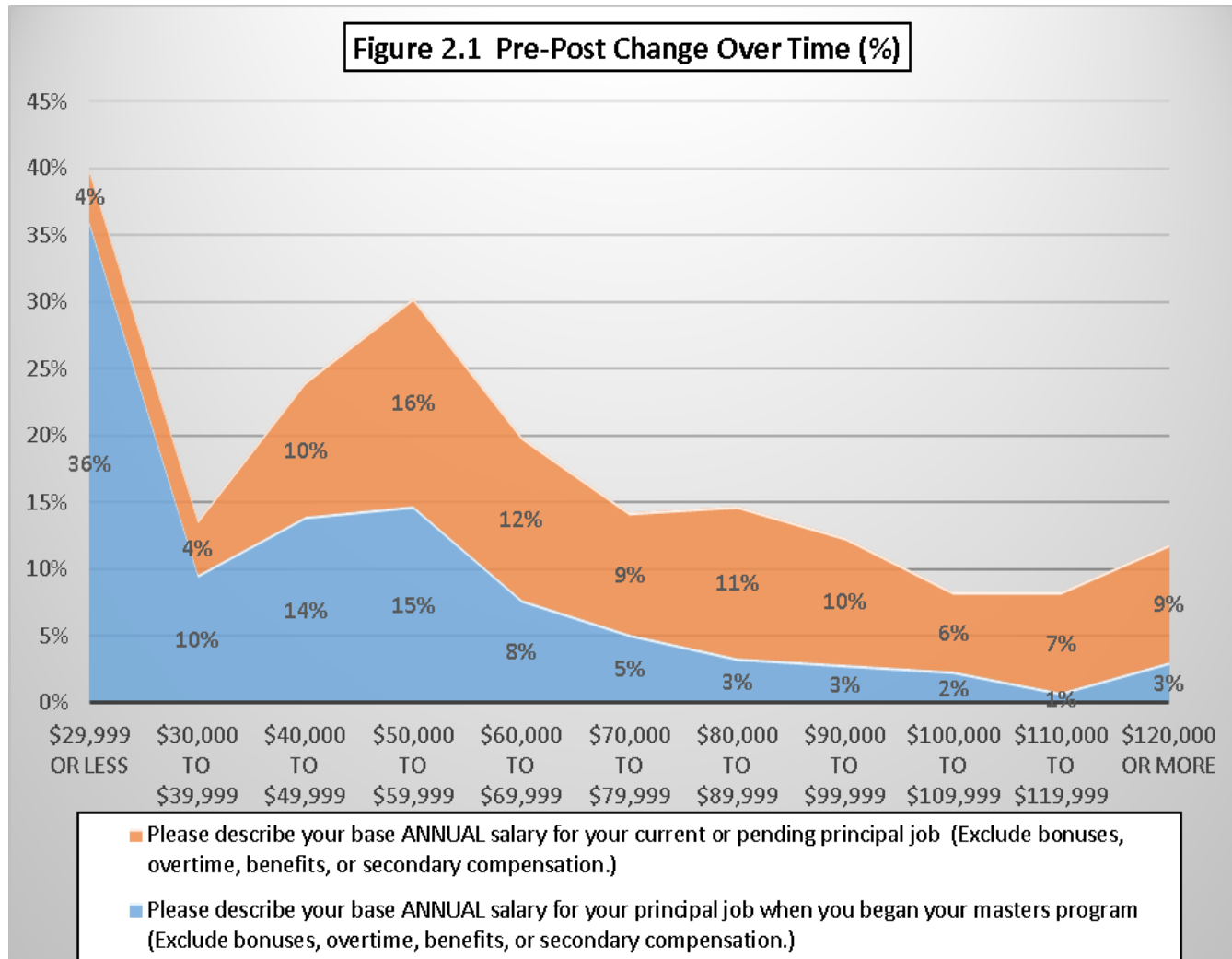


Diverse institutions offer PSMs

Figure 1.2 Carnegie Classifications for PSM Programs



PSM grads see increased earnings

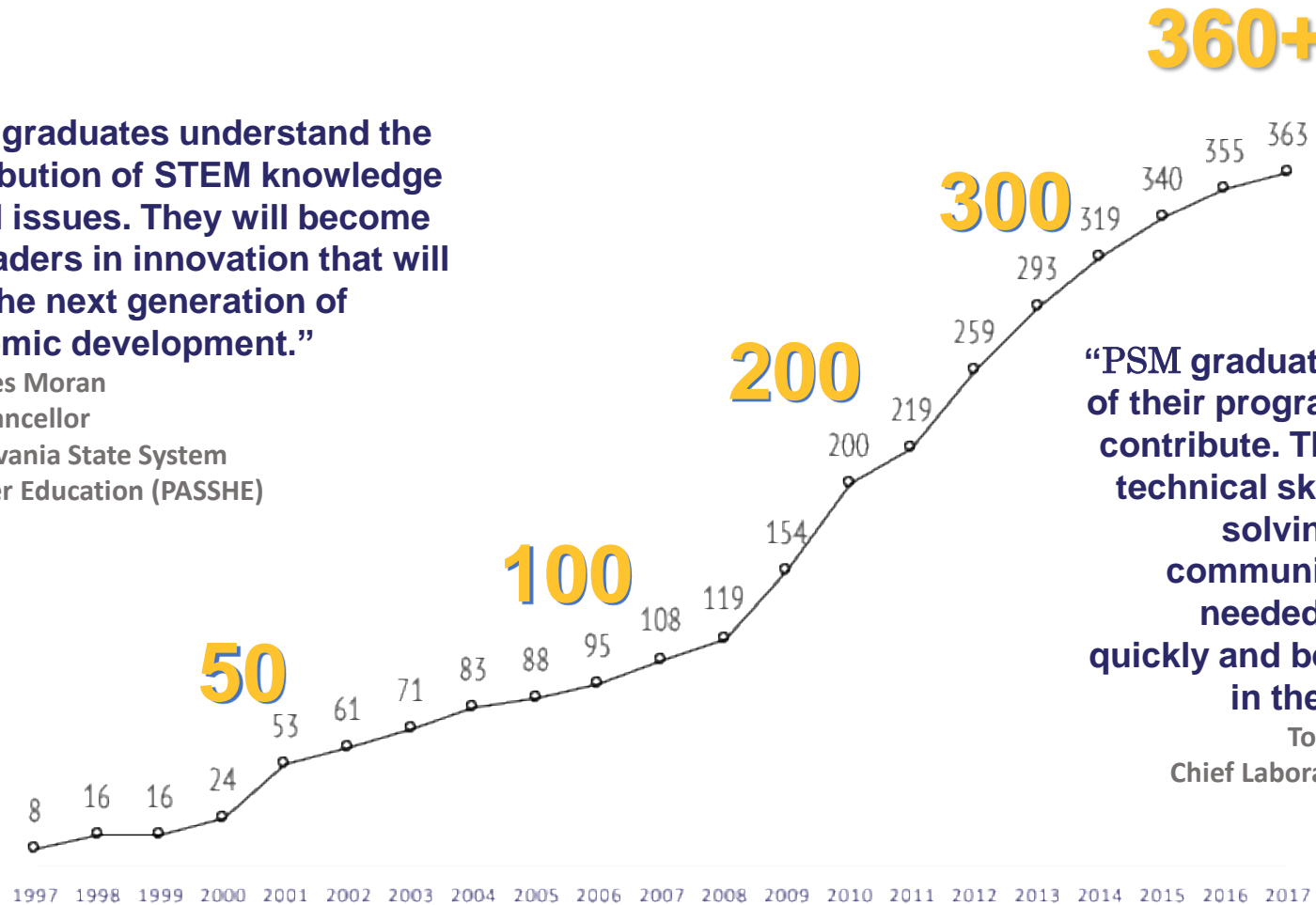


Source: Outcomes for PSM Alumni: www.professionalsciencemasters.org

Praise and Progress for PSM

“PSM graduates understand the contribution of STEM knowledge to real issues. They will become the leaders in innovation that will spur the next generation of economic development.”

Dr. James Moran
Vice Chancellor
Pennsylvania State System
of Higher Education (PASSHE)



“PSM graduates come out of their programs ready to contribute. They have the technical skills, problem solving skills, and communication skills needed to integrate quickly and be successful in the workplace”

Todd Arnold, Ph.D.
Chief Laboratory Operations
Officer, Sema4

PSMs are a WIN-WIN-WIN

- **Students** enter a viable pathway to an advanced science degree and career without the PhD.
- **Academic institutions** offer valuable degrees providing career options and workforce solutions.
- **Employers** gain a technically and professionally trained cadre of workers ready to contribute on day one.

PSM graduates are more likely to be employed in the state / region in which they earn the degree, contributing to local and regional economic development.

How can I connect with other PSM programs?

**National Professional Science
Master's Association
(NPSMA)**

What is the NPSMA?

The National Professional Science Master's Association "...supports PSM programs, engages businesses, industries, non-profit organizations, and government agencies, and promotes the PSM as a graduate degree-of-choice for students in science, mathematics, and technology." (NPSMA Bylaws)

PSM Leadership

NPSMA
BOARD OF DIRECTORS

AND

COMMISSION FOR AFFILIATION
OF PSM PROGRAMS

NC STATE UNIVERSITY



THE UNIVERSITY
of NORTH CAROLINA
at CHAPEL HILL



WORKFORCE ADVISORY COUNCIL



What does the NPSMA offer?

- Annual conference
- Topical workshops
- Webinars
- Resources for program directors
- INNOVATOR publication
- Regular newsletters
- Site visits
- Awards and recognitions

The Commission for Affiliation of NPSMA Programs works in close coordination with the NPSMA and oversees quality assurance (affiliation) for PSMs.



innovator NPSMA NATIONAL PROFESSIONAL SCIENCE MASTER'S ASSOCIATION

NPSMA updates March 2016

Upcoming Events & Deadlines

- JOB OPPORTUNITIES WEBINAR FOR PSM STUDENTS AND PROGRAM DIRECTORS: CAREERS AT THE NIH.** Tuesday April 12, 2:00-3:00 pm EST. Learn about research, policy analyst, and communications specialist opportunities in biology, statistics, bioinformatics and health. Please share the accompanying flyer with your students. Register at <https://global.gotomeeting.com/join/42720009>
- VOLUNTEER TO ORGANIZE A CONCURRENT SESSION FOR THE 2016 NATIONAL CONFERENCE.** Topics for 1 hr sessions: 1) developing and implementing internships 2) industry-sponsored program development. Please send organizer's name and contact information, a title, short list of potential speakers, panelist, and a <250 word abstract to: coordinator@npsma.org by 4/15/2016

Of Interest to NPSMA Members:

- PSM CAS to be implemented soon - see Spring 2016 newsletter for more information.**
- Save the dates**
- NPSMA Preconference Workshop PLUS COURSES**
- Annual National Conference LISTENING TO EMPLOYERS**

November 9-11, 2016 in Arlington, VA. Register www.npsma.org soon open 9:30 a.m.

DATA ANALYTICS WORKSHOP
May 18-19, 2016
Niagara Falls
Information:
www.dataanalyticscrossdisciplines.org
Registration (deadline is April 28) at www.npsma.org/workshops

PSM PROFESSIONAL SCIENCE MASTER'S

Workplace Ready Employees

PSM graduates acquire both STEM disciplinary expertise and high-value, transferable professional skills to prepare them for successful employment. Internships, group projects, and other experiential learning opportunities immerse PSM students in the workplace. Designed with industry professionals, the PSM degree ensures that graduates are workplace ready.

PSMs offered in In-Demand STEM Fields

- Biotechnology
- Chemical Engineering
- Chemistry
- Computer Science
- Environmental Engineering
- Environmental Science
- Food Science
- Healthcare
- Industrial Engineering
- Manufacturing
- Materials Science
- Mathematics
- Physics
- Software Engineering
- Statistics
- Systems Engineering
- Textile Engineering
- Transportation

Develop the professional skills employers need: Problem Solving and Critical Thinking, Communication, Teamwork, Leadership, Laboratory Management, Risk and Quantitative Analysis, and Strategic Thinking and Responsible Conduct.

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International in Australia, South Korea and the United Kingdom

www.professionalsciencemasters.org

PSM for Our State



“PSM for Our State” is a two-year growth and awareness campaign focused on two major goals:

- Strengthening the position of PSMs locally, regionally, and nationally through a focus on messaging and media; and,
- Taking intentional steps to bring the advantages of the PSM to all 50 states

For more information

Visit

<https://www.professionalsciencemasters.org/>

Contact us

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