CHEMICAL ENGINEERING

Professional Masters Program

PURDUE UNIVERSITY

Davidson School of Chemical Engineering

PROFESSIONAL MASTERS PROGRAM (PMP)

The **STEM-designated** Professional Master's Program (PMP) in Chemical Engineering at Purdue University equips students with advanced technical expertise and professional skills to accelerate their careers in the chemical engineering and related industries. Designed for students looking to enhance their technical knowledge while gaining business and management acumen, this program offers a tailored curriculum with seven concentration areas, experiential learning through an industry-driven capstone project, and numerous other opportunities for professional development. Students gain hands-on experience through applied research, case studies, and collaborations with faculty and industry leaders. The program prepares graduates for diverse careers in energy, pharmaceuticals, biotechnology, polymers, and manufacturing, with many also pursuing further education, such as Ph.D. or MBA programs.

LENGTH	FORMAT	FEES
12 Months or 16 Months	**Full-time, residential**	**View Current Rates**

PROGRAM HIGHLIGHTS

#5
BEST GRADUATE ENGINEERING PROGRAM in the US
U.S. News & World Report, 2026

$86K-90K
AVERAGE STARTING SALARY
Class of 2024

94%
EMPLOYMENT RATE
(within six months of graduation) Class of 2024

- 7 concentration areas - Biochemical Engineering, Data Science in Chemical Engineering, Energy Systems Fundamentals and Processes, Gas and Petroleum Engineering, Kinetics, Catalysis and Reaction Engineering, Pharmaceutical Engineering, Polymer Science and Engineering.
- Accelerated Timeline – Complete the program in 12 months (for students with chemical engineering backgrounds) or 16 months (for other engineering/science fields).
- Interdisciplinary Curriculum – Blend technical courses with management and business training for a well-rounded education.
- Hands-on Capstone Project in partnership with industry leading companies to apply engineering principles to real-world challenges .
- Networking & Career Development – Access to industry mentorship, career fairs, site visits and corporate partnerships.
- World-class educational experience across engineering and management verticals with our large faculty roster.

MORE INFORMATION

Graduate Programs Office | 765.494.4050 | chepmp@purdue.edu
engineering.purdue.edu/ChE/academics//graduate/masters

Graduate Chemical Engineering Program

PLACEMENT PROFILE

EMPLOYMENT

94% Employment Rate

AVERAGE SALARY

$86,000 - $90,500

TOP EMPLOYERS

Eli Lilly & Co
Applied Materials
Catalent
Eurofins
Intel
Evonik Tippecanoe Labs
ADM (Archer Daniels Midland)
Pfizer
Vertex Pharmaceuticals
Procter & Gamble

TOP POSITIONS

Process Engineer
Chemical Engineer
Quality Control Scientist
Engineering Consultant
Operation Engineer
Electrochemical Engineer

TOP CAPSTONE PARTNERS

Amgen
Bristol Myers Squibb (BMS)
Chevron
Dow
Pfizer
Siemens
3M
Acutech
Fauske

CURRICULUM

12-month Track

30 total required credits

6 Credits of core courses

- Statistical Methods in Chemical Engineering
- Transport Phenomena

9 Credits of Concentration Elective Courses

9 Credits of Management Courses from the following*

- Engineering Applications in Marketing Management
- Financial Analysis & Management of Projects
- Strategic Management I
- Intro to Operations Management

6 Credits of ChE Capstone Project

16-month Track

41 total required credits

11 Credits of pre-requisite courses

- Chemical Engineering Calculations
- Design Of Staged Separation Processes
- Chemical Reaction Engineering

6 Credits of Core Courses

- Statistical Methods in Chemical Engineering
- Transport Phenomena

9 Credits Concentration Elective Courses

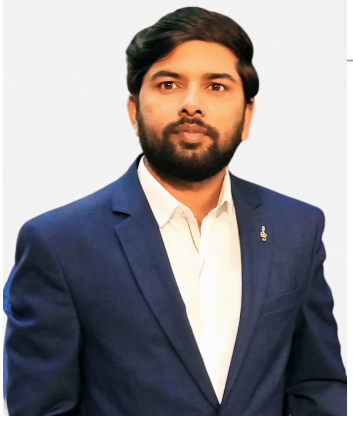
9 Credits of Management Courses from the following*

- Engineering Applications in Marketing Management
- Financial Analysis & Management of Projects
- Strategic Management I
- Intro to Operations Management

6 Credits of ChE Capstone Project

*Other Management courses may be selected upon approval from the PMP Program Director.

For more information and a sample degree map visit
engineering.purdue.edu/ChE/academics//graduate/masters/curriculum



"The chemical engineering PMP has given me the tools, knowledge, and network to grow and thrive in the ever-evolving field of pharmaceutical engineering. It allowed me to successfully integrate and enhance my extensive industry experience with advanced strategic management skills."

Bhaskar Shette, PMP '24 Senior Process Engineer, Cambrex

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Scan to connect with a current PMP student and ask any questions you have.

Two Tracks to Fit Your Career Goals

INTERNSHIP TRACK

Credits: 30 or 41 credits
+ approved industry internship

Declaration: Must be declared in the first semester of enrollment

Structure:

- 6 credits of required Core Courses
- 9 credits of approved Concentration Electives
- 9 credits of approved Management /Business Courses
- 6-credit Capstone Project
- 11 prerequisite credits for non-chemical engineering undergraduates

Internship:

- Duration: Up to 2 semesters (including summer) with a single employer
- Students remain full-time during internship
- Students must secure their own internship
- May be classified as a co-op based on offer details

Fallback Option: Students are moved to the standard track if no internship is secured by the deadline

WORKING PROFESSIONAL TRACK

Credits: 30 or 41* credits for graduation
(41 with prerequisite courses)

Designed for full-time professionals pursuing the degree part-time over 3-4 years.

Course Load: 3–6 credits per semester
degree completion within 4 years

Capstone Project: May start in Year 2;
often completed with current employer

Prerequisites: 11 additional credits for students without a chemical engineering undergraduate degree.
(typically completed in Year 1)

Sample Timeline: 3–6 credits each semester,
summer enrollment optional

For more information and a sample degree map visit:

https://engineering.purdue.edu/ChE/academics/graduate/masters/internship-track,
https://engineering.purdue.edu/ChE/academics/graduate/masters/working-professional

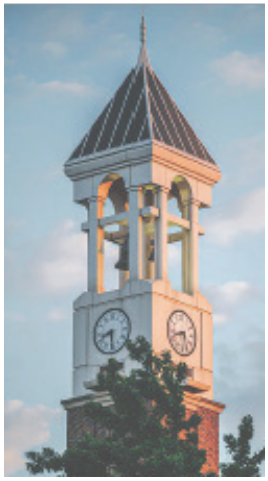
APPLICATION DEADLINES

Complete applications are reviewed on a rolling basis.

The deadline for completing an application for a Fall semester will be April 15, and for a Spring semester*, **October 1.**

Summer admissions - No Entry

**Spring entry is only offered to students with a previous degree in chemical engineering.*



BOILER UP !!

APPLY NOW

START YOUR JOURNEY TODAY!

Professional Master's Program,
Forney Hall of Chemical Engineering,
480 Stadium Mall Drive
West Lafayette, IN 47907

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Scan for more information about the program