

UNIVERSITY OF WASHINGTON
COLLEGE OF ENGINEERING
INTERENGINEERING GRADUATE STUDIES
Master of Science in Engineering/Program in Engineering and Manufacturing Management
(PEMM)

Application Deadline

Autumn Quarter

March I

February I

(foreign students)

*Early application is recommended

INTERENGINEERING MASTER OF SCIENCE IN ENGINEERING (MSE) AND PEMM PROGRAM

DESCRIPTION OF PEMM PROGRAM

The University of Washington's Program in Engineering and Manufacturing Management (PEMM) was created in recognition of the management challenges that U.S. manufacturing companies face in an increasingly complex and competitive global marketplace. PEMM, which is a joint effort of the UW's School of Business Administration and the College of Engineering, attempts to bridge the barriers that exist among managers and engineers in manufacturing organizations. The program emphasizes the integration of a firm's engineering, manufacturing, and business functions and considers a product's total life cycle-from initial design and start-up financing to finished product and effective marketing strategy.

To develop, disseminate, and implement the ideas that will promote world-class manufacturing, PEMM has initiated a new level of interdisciplinary cooperation and participation. Under the program's aegis, students, research faculty, manufacturing community leaders, and government affiliates will work together to understand and respond to the challenges that are taking place in manufacturing. With its four components-education, curriculum development, research, and industrial liaison-PEMM will prepare manufacturing managers for the 21st century and promote continuous dialogue and research in the issues that relate to the management of engineering and manufacturing.

PEMM STUDENTS

For students interested in a career in technical manufacturing management, PEMM offers a two-year (24-month) joint degree program, leading to both MBA (Master of Business Administration) and MSE (Master of Science in Engineering) degrees. PEMM students begin their MBA core requirements during the academic year, from September through June. During their first summer, PEMM students pursue an internship to apply their cross-disciplinary skills. The next three quarters are devoted to courses in manufacturing operations and strategy, systems engineering, CAD/CAM, project management, and quality control and quality assurance. In their final summer, PEMM students research and write their masters thesis, working closely with faculty and industry managers on specific business problems.

THE ADVANTAGES OF PEMM AND THE PACIFIC NORTHWEST

PEMM's educational design, in conjunction with its other three components, offers UW graduate students several important benefits. The program's close ties to the region's manufacturing community, for example, enable us to involve business and engineering executives in our classroom and field studies. PEMM's focus on international manufacturing is heightened by our geographical location and our history as a window onto the Pacific Rim. Our emphasis on total quality management and design for manufacturing places us among the leaders in integrated engineering and manufacturing education. Because PEMM's teaching faculty are committed to interdisciplinary research, we can readily coordinate the most current information with our educational and outreach programs.

ADMISSION REQUIREMENTS AND PROCEDURES

Requirements: MSE/PEMM applicants are required to have a bachelor's degree in engineering with a junior-senior GPA of 3.0. Students entering without an accredited engineering undergraduate degree must satisfy the general requirements of the College of Engineering baccalaureate degree.

Requirements for MSE Degree

Minimum Undergraduate Technical Requirements for Application:

Mathematics	24
Natural Sciences	25
Written and Oral Communication	12
Engineering Fundamentals	24
Engineering Major	*
Visual, Literary, & Performing Arts (VLPA) (formerly Humanities and Social Science)	30
* Credits specified by undergraduate degree granting department	

Masters Graduation Requirements (39 credits):

Engineering 400 and 500 level (minimum)	30
Engineering 400 level (maximum 9 credits)	
Engineering 500 level (minimum 21 credits)	
Thesis	9

Procedure: To apply to the MSE PEMM program, an applicant must apply for admission to **both** (a) The College of Engineering and (b) The School of Business MBA Program. (The MBA Program requires a separate application).

To apply to The College of Engineering submit the following to the PEMM Office, Box 352600, University of Washington, Seattle, WA 98195-2600: 1) a completed application for the MSE/PEMM Program (attached); 2) three letters of recommendation; 3) one official transcript from each collegiate institution attended; 4) resume.

PROGRAM ADMINISTRATION

The Program is administered by the Interengineering Group, which includes faculty members in several departments of the College. When the student has been admitted to the program, an academic and research advisor will be officially selected and a supervisory committee appointed. The committee will consist of at least three faculty members, drawn from at least two engineering departments and one of whom is the student's advisor. The committee has the responsibility of approving the student's plan of studies and research, following the student's progress, conducting the MSE examination and determining that the approved plan has been satisfactorily completed. The student is required to meet with the MSE program director at least once per quarter to keep that office apprised of the student's status and progress.

The University of Washington provides equal opportunity in education without regard to race, color, creed, religion, national origin, sex, sexual orientation, age, marital status, disability, or status as a disabled veteran or Vietnam era veteran.

For additional information regarding the Interengineering MSE/PENW program, call or write to the:

PEMM (Program in Engineering and Manufacturing Management)
University of Washington, Box 352600
Seattle, WA 98195
(206) 685-7023 e-mail: pemm@u.washington.edu

Graduate Program Office
School of Business Administration
Mackenzie Hall, Box 353200
University of Washington
Seattle, WA 98195
(206) 543-4661

**UNIVERSITY OF WASHINGTON
COLLEGE OF ENGINEERING
INTERENGINEERING GRADUATE STUDIES**

A. GENERAL INFORMATION

[illegible]

B. COLLEGE CREDITS & GPA

College. List all colleges and universities you have attended or are attending (include UW)

NAME OF COLLEGE OR UNIVERSITY	20R4 YEAR	LOCATION	DATES ATTENDED	MAJOR	DEGREE & DATE RECEIVED OR EXPECTED

GPA. List the cumulative and technical GPA and number of credits for each category below.

COLLEGE OR UNIVERSITY	CUMULATIVE		TECHNICAL (includes Math, Physics, Chemistry and Engineering)
	GPA	Credits	GPA Credits

C. EMPLOYMENT INFORMATION

Employment. List all post-high school employment.

DATES (per week) (Start with most recent)	EMPLOYER (Company name and location)	POSITION	HOURS (per week)

D. WORK EXPERIENCES

Describe work experiences and/or coursework you have taken related to engineering and manufacturing management.

E. APPLICANT CERTIFICATION

I understand that all information herein provided is true, correct, and complete, and that I am the sole author of sections D and E. I understand that failure to submit all required documents by the application deadline can result in denial of admission to an engineering department.

Signature of Applicant

Date

APPLICATION CHECKLIST

- ☐ I have completed parts A, B, C, and D of the application, and I have signed the applicant certification in part E.
- ☐ I have attached all required transcripts and letters of recommendation.
- ☐ I have attached a resume.
- ☐ I have arranged for three letters of recommendation to be sent to PEMM.
- ☐ I have applied separately to the School of Business Administration.
- ☐ I have taken the GMAT exams as part of the application process for the School of Business Administration. If the scores are available, please enter here: _____