ENGINEERING MECHANICS: AEROSPACE ENGINEERING, M.S.

This is a named option within the Engineering Mechanics, M.S. (http://guide.wisc.edu/graduate/mechanical-engineering/engineering-mechanics-ms/)

The Aerospace Engineering named option of the Master of Science degree in Engineering Mechanics is an accelerated coursework-only program, where students will learn advanced mechanics topics pertaining to the aerospace field. The curriculum is structured around the areas of fluid mechanics, rigid-body dynamics, structural dynamics, aerospace mechanics and materials, and computation. The 2-3 semester program is intended to provide a rigorous masters-level education and increased earning potential.

ADMISSIONS

Please consult the table below for key information about this degree program's admissions requirements. The program may have more detailed admissions requirements, which can be found below the table or on the program's website.

Graduate admissions is a two-step process between academic programs and the Graduate School. *Applicants must meet* the minimum requirements (https://grad.wisc.edu/apply/requirements/) of the *Graduate School as well as the program(s)*. Once you have researched the graduate program(s) you are interested in, apply online (https://grad.wisc.edu/apply/).

3		
Requirements	Detail	
Fall Deadline	December 15	
Spring Deadline	September 1	
Summer Deadline	This program does not admit in Summer.	
GRE (Graduate Record Examinations)	Not required	
English Proficiency Test	Every applicant whose native language is not English or whose undergraduate instruction was not in English must provide an English proficiency test score and meet the Graduate School minimum requirements (https://grad.wisc.edu/apply/requirements/#english-proficiency).	
Other Test(s) (e.g., GMAT, MCAT)	n/a	
Letters of Recommendation Required	3	

APPLICATION REQUIREMENTS AND PROCESS

Degree: For admission to graduate study in Engineering Mechanics, an applicant must have a bachelor's degree in engineering, mathematics, or physical science, and an undergraduate record that indicates an ability to successfully pursue graduate study. International applicants must have a degree comparable to a regionally accredited U.S. bachelor's degree. All applicants must satisfy requirements that are set forth by the Graduate School (https://grad.wisc.edu/apply/requirements/).

GPA: The Graduate School requires a minimum undergraduate grade point average of 3.0 on a 4.0 basis on the equivalent of the last 60 semester hours from the most recent bachelor's degree. In special cases, students with grade point averages lower than 3.0 who meet all the general requirements of the Graduate School may be considered for admission on probation.

Each application must include the following:

- Graduate School Application (https://grad.wisc.edu/apply/)
- · Academic transcripts
- · Statement of purpose
- · Resume/CV
- · Three letters of recommendation
- English Proficiency Score (if required)
- · Application Fee

DEADLINES

To apply to the EM program, complete applications (https://grad.wisc.edu/apply/), including supportive materials, must be submitted as described below and received by the following deadline dates:

- Fall Semester–December 15
- · Spring Semester-September 1

ACADEMIC TRANSCRIPT

Within the online application, upload the undergraduate transcript(s) and, if applicable, the previous graduate transcript. Unofficial copies of transcripts will be accepted for review, but official copies are required for admitted students. Please do not send transcripts or any other application materials to the Graduate School or the Department of Mechanical Engineering unless requested. Please review the requirements set by the Graduate School (https://grad.wisc.edu/apply/requirements/) for additional information about degrees/transcripts.

STATEMENT OF PURPOSE

In this document, applicants should explain why they want to pursue further education in Engineering Mechanics and discuss which UW faculty members they would be interested in doing research with during their graduate study (see the Graduate School for more advice on how to structure a personal statement (https://grad.wisc.edu/apply/prepare/)).

RESUME

Upload your resume in your application.

THREE LETTERS OF RECOMMENDATION

These letters are required from people who can accurately judge the applicant's academic performance. It is highly recommended these letters be from faculty familiar with the applicant. Letters of recommendation are submitted electronically to graduate programs through the online application. See the Graduate School for FAQs (https://grad.wisc.edu/

apply/) regarding letters of recommendation. Letters of recommendation are due by the deadline listed above.

ENGLISH PROFICIENCY SCORE

Every applicant whose native language is not English, or whose undergraduate instruction was not in English, must provide an English proficiency test score. The UW-Madison Graduate School accepts TOEFL or IETLS scores. Your score will not be accepted if it is more than two years old from the start of your admission term. Country of citizenship does not exempt applicants from this requirement. Language of instruction at the college or university level and how recent the language instruction was taken are the determining factors in meeting this requirement.

TOEFL scores must be a minimum of 100. IELTS scores must be a minimum of 7. These score requirements are higher than the Graduate School minimum requirement.

For more information regarding the Graduate School exemption policy, please see the Graduate School Requirements for Admission (https://grad.wisc.edu/apply/requirements/).

APPLICATION FEE

Application submission must be accompanied by the one-time application fee. It is non-refundable and can be paid by credit card (MasterCard or Visa) or debit/ATM. Additional information about the application fee may be found here (https://grad.wisc.edu/apply/) (scroll to the 'Frequently asked questions).

Fee grants are available through the conditions outlined here by the Graduate School (https://grad.wisc.edu/apply/fee-grant/).

QUESTIONS

If you have questions, please contact emgradadmission@engr.wisc.edu.

REENTRY ADMISSIONS

If you were previously enrolled as a graduate student in the Engineering Mechanics program, have not earned your degree, but have had a break in enrollment for a minimum of a fall or spring term, you will need to re-apply to resume your studies. Please review the Graduate School requirements for previously enrolled students (https://policy.wisc.edu/library/UW-1230/). Your previous faculty advisor (or another EM faculty advisor) must be willing to supply advising support and should e-mail the EM Graduate Student Services Coordinator regarding next steps in the process.

If you were previously enrolled in a UW-Madison graduate degree, completed that degree, have had a break in enrollment since earning the degree and would now like to apply for another UW-Madison program; you are required to submit a new student application through the UW-Madison Graduate School online application. For EM graduate programs, you must follow the entire application process as described above.

CURRENTLY ENROLLED GRADUATE STUDENT ADMISSIONS

Students currently enrolled as a graduate student at UW-Madison, whether in EM or a non-EM graduate program, wishing to apply to this degree program should contact the EM Graduate Admissions Team (emgradadmission@engr.wisc.edu) to inquire about the process and deadlines several months in advance of the anticipated enrollment term.

Current students may apply to change or add programs for any term (fall, spring, or summer).

QUESTIONS

If you have questions, please contact emgradadmission@engr.wisc.edu.

FUNDING

GRADUATE SCHOOL RESOURCES

Resources to help you afford graduate study might include assistantships, fellowships, traineeships, and financial aid. Further funding information (https://grad.wisc.edu/funding/) is available from the Graduate School. Be sure to check with your program for individual policies and restrictions related to funding.

PROGRAM INFORMATION

Students enrolled in this program are not eligible to receive tuition remission from graduate assistantship appointments at this institution.

ADDITIONAL RESOURCES FEDERAL LOANS

Students who are U.S. citizens or permanent residents may be eligible to receive some level of funding through the federal direct loan program. These loans are available to qualified graduate students who are taking at least 4 credits during the fall and spring semesters, and 2 credits during summer. Private loans are also available. Learn more about financial aid at their website (https://financialaid.wisc.edu/).

INTERNATIONAL STUDENT SERVICES FUNDING AND SCHOLARSHIPS

For information on International Student Funding and Scholarships visit the ISS website (https://iss.wisc.edu/students/new-students/funding-scholarships/).

REQUIREMENTS

MINIMUM GRADUATE SCHOOL REQUIREMENTS

Review the Graduate School minimum academic progress and degree requirements (http://guide.wisc.edu/graduate/#policiesandrequirementstext), in addition to the program requirements listed below.

NAMED OPTION REQUIREMENTS

MODE OF INSTRUCTION

Face to Face	Evening/ Weekend	Online	Hybrid	Accelerated
Yes	No	No	No	Yes

Mode of Instruction Definitions

Accelerated: Accelerated programs are offered at a fast pace that condenses the time to completion. Students typically take enough credits aimed at completing the program in a year or two.

Evening/Weekend: Courses meet on the UW-Madison campus only in evenings and/or on weekends to accommodate typical business

schedules. Students have the advantages of face-to-face courses with the flexibility to keep work and other life commitments.

Face-to-Face: Courses typically meet during weekdays on the UW-Madison Campus.

Hybrid: These programs combine face-to-face and online learning formats. Contact the program for more specific information.

Online: These programs are offered 100% online. Some programs may require an on-campus orientation or residency experience, but the courses will be facilitated in an online format.

CURRICULAR REQUIREMENTS

Requirement Detail Minimum 30 credits Credit Requirement Minimum 16 credits Residence Credit Requirement Minimum 15 credits must be graduate-level coursework. Details can Graduate be found in the Graduate School's Minimum Graduate Coursework Coursework (50%) policy (https://policy.wisc.edu/library/ Requirement UW-1244 (https://policy.wisc.edu/library/UW-1244/)). Overall 3.00 GPA required. Graduate This program follows the Graduate School's GPA **GPA** Requirement policy Requirement (https://policy.wisc.edu/library/UW-1203 (https:// policy.wisc.edu/library/UW-1203/)). Other Grade Courses in which grades of BC, C, or below are received Requirements cannot be counted toward the degree except as follows: 1) Credits of C will be allowed provided they are balanced by twice as many credits of A or by four times as many credits of AB, 2) Credits of BC will be allowed provided they are balanced by twice as many credits of AB or by an equal number of credits of A. Assessments No formal examination required. and Examinations

REQUIRED COURSES

No language requirements.

First Year

Language

Requirements

Fall	CreditS pring	CreditS ummer	Credits
EP/EMA 547	3 E M A 601 (Mechanics Seminar)	1 If needed, 4 additional credits ¹	4
E M A 601 (Mechanics Seminar)	1 Select an additional 12 credits	12	
Select an additional 9 credits	9		
	13	13	4

- Students must take at least one class (3 credits) in E M A in any course numbered 700 or greater. Seminar, research, and co-op courses (such as E M A 790 Master's Research and Thesis, E M A 890 Pre-Dissertator Research, E M A 990 Research and Thesis, and E M A 702 Graduate Cooperative Education Program) are not eligible to satisfy this requirement.
- To establish sufficient depth in aerospace sciences, the courses selected must involve completion of at least two of the following five topical areas. You should check the future course offerings plans when choosing, since not all courses are offered every year (and hence not all topical areas can be completed every year).
- The additional courses required to meet the 30-credit minimum for completion of the degree should be selected from among the courses listed below.

Some credit can be transferred in.

TOPICAL AREAS Fluid Mechanics¹

Code	Title	Credits
E M A 521	Aerodynamics ²	3
Select one:		3
M E 563	Intermediate Fluid Dynamics	
E M A 524	Rocket Propulsion	
M E 572	Intermediate Gas Dynamics	
M E/CIV ENGR/ E M A 775	Turbulent Heat and Momentum Transfer	

1

1

These pathways are internal to the program and represent different curricular paths a student can follow to earn this degree. Pathway names do not appear in the Graduate School admissions application, and they will not appear on the transcript.

2

If you have already completed an equivalent course as an undergrad then you may take two courses total from the second list and meet this requirement.

Rigid Body Dynamics '

Title	Credits
Advanced Dynamics ²	3
	3
Flight Dynamics and Control	
Astrodynamics	
Satellite Dynamics	
Kinematics and Dynamics of Machine Systems	
	Advanced Dynamics ² Flight Dynamics and Control Astrodynamics Satellite Dynamics Kinematics and Dynamics of

1

These pathways are internal to the program and represent different curricular paths a student can follow to earn this degree. Pathway names do not appear in the Graduate School admissions application, and they will not appear on the transcript.

2

If you have already completed an equivalent course as an undergrad then you may take two courses total from the second list and meet this requirement.

Structural Dynamics 1

Code	Title	Credits
Select one: ²		3
M E 440	Intermediate Vibrations	
E M A 545	Mechanical Vibrations	
E C E 717	Linear Systems	
Select one:		3
M E/E M A 540	Experimental Vibration and Dynamic System Analysis	
E M A 610	Structural Finite Element Model Validation	
E M A 747	Nonlinear and Random Mechanical Vibrations	

1

These pathways are internal to the program and represent different curricular paths a student can follow to earn this degree. Pathway names do not appear in the Graduate School admissions application, and they will not appear on the transcript.

2

If you have already completed an equivalent course as an undergrad then you may take two courses total from the second list and meet this requirement.

Aerospace Mechanics and Materials 1

C	ode	Title	Credits
S	elect two courses:		6
	E M A 506	Advanced Mechanics of Materials I	
	EMA/ MS&E 541	Heterogeneous and Multiphase Materials	
	E M A/CIV ENGR/ M E 508	Composite Materials	
	E M A 622	Mechanics of Continua	
	E M A 630	Viscoelastic Solids	
	E M A 700	Theory of Elasticity	
	EMA/ME 703	Plasticity Theory and Physics	

These pathways are internal to the program and represent different curricular paths a student can follow to earn this degree. Pathway names do not appear in the Graduate School admissions application, and they will not appear on the transcript.

Computation 1

Credits	Т	Code
3		Select one: ²
	In	E M A 605
	С	M E 573
3		Select one:
ents	А	E M A 705
tion	In	M E 548
	C	E M A 605 M E 573 Select one: E M A 705

M E 748	Optimum Design of Mechanical Elements and Systems
MATH/ COMP SCI 714	Methods of Computational Mathematics I
E M A/COMP SCI/ E C E/E P/ M E 759	High Performance Computing for Applications in Engineering

1

These pathways are internal to the program and represent different curricular paths a student can follow to earn this degree. Pathway names do not appear in the Graduate School admissions application, and they will not appear on the transcript.

2

If you have already completed an equivalent course as an undergrad then you may take two courses total from the second list and meet this requirement.

ELECTIVE COURSES Fall Elective Course Offerings

Code	Title	Credits
E C E 717	Linear Systems	3
E M A 506	Advanced Mechanics of Materials I	3
E M A 521	Aerodynamics	3
E M A 524	Rocket Propulsion	3
EMA/MS&E 541	Heterogeneous and Multiphase Materials	3
E M A 605	Introduction to Finite Elements	3
EMA/ME 703	Plasticity Theory and Physics	3
E P/E M A 547	Engineering Analysis I	3
M E 440	Intermediate Vibrations	3
M E/E M A 540	Experimental Vibration and Dynamic System Analysis	3
M E/E M A 570	Experimental Mechanics	3
M E 573	Computational Fluid Dynamics	3

Spring Elective Course Offerings

-pg	-			
Code		Title	Credi	ts
E M A 522		Aerodynamics Lab		3
E M A 523		Flight Dynamics and Control		3
EMA/ASTRON 5	550	Astrodynamics		3
EMA/ME 570		Experimental Mechanics		3
E M A 610		Structural Finite Element Model Validation		3
E M A 611		Advanced Mechanical Testing of Materials		3
E M A 622		Mechanics of Continua		3
E M A 630		Viscoelastic Solids		3
E M A 642		Satellite Dynamics		3
E M A 705		Advanced Topics in Finite Elements		3
E M A 747		Nonlinear and Random Mechanical Vibrations		3
M E 563		Intermediate Fluid Dynamics		3
M E 569		Applied Combustion		3
M E 572		Intermediate Gas Dynamics		3
M E 769		Combustion Processes		3

M E/CIV ENGR/	Turbulent Heat and Momentum	3
EMA 775	Transfer	

	Fall/Spring Elective Course Offerings (offering varies)					
	Code	Title	Credits			
	E M A 700	Theory of Elasticity	3			
	MATH 705	Mathematical Fluid Dynamics	3			
	M E/N E 520	Two-Phase Flow and Heat Transfer	3			
	M E 561	Intermediate Thermodynamics	3			
	M E 564	Heat Transfer	3			
	M E 761	Topics in Thermodynamics	3			
	M E 764	Advanced Heat Transfer I- Conduction	3			
	M E 770	Advanced Experimental Instrumentation	3			
	M E 774	Chem Kinetics of Combust Systems	3			

Other Policy

Students in this program may not take courses outside the prescribed curriculum without faculty advisor and program director approval.

Students in this program cannot enroll concurrently in other undergraduate or graduate degree programs.

POLICIES

GRADUATE SCHOOL POLICIES

The Graduate School's Academic Policies and Procedures (https://grad.wisc.edu/acadpolicy/) provide essential information regarding general university policies. Program authority to set degree policies beyond the minimum required by the Graduate School lies with the degree program faculty. Policies set by the academic degree program can be found below.

NAMED OPTION-SPECIFIC POLICIES

PRIOR COURSEWORK

Graduate Work from Other Institutions

With advisor and EM Graduate Studies Committee approval, students may use up to 6 credits of relevant coursework from a prior graduate program. Please review the Graduate Program Handbook (see contact box) for information about use and restrictions to this policy.

UW-Madison Undergraduate

With program approval, students are allowed to count up to 7 credits of coursework from the following list of courses:

Code	Title	Credits
EP/EMA 547	Engineering Analysis I	3
EP/EMA 548	Engineering Analysis II	3
E M A 303	Mechanics of Materials	3
EMA/ME 307	Mechanics of Materials Lab	1
E M A 405	Practicum in Finite Elements	3
E M A 405	Practicum in Finite Elements	3
E M A 506	Advanced Mechanics of Materials I	3
EMA/CIVENGR/ ME 508	Composite Materials	3

E M A 519	Fracture Mechanics	3
E M A 542	Advanced Dynamics	3
EMA/ME 570	Experimental Mechanics	3
E M A 605	Introduction to Finite Elements	3
E M A 611	Advanced Mechanical Testing of Materials	3
E M A 622	Mechanics of Continua	3
E M A 642	Satellite Dynamics	3
E M A 705	Advanced Topics in Finite Elements	3

These may be counted toward the Minimum Graduate Degree Credit Requirement as applicable. No credits may be counted toward the minimum graduate residence credit requirement. Coursework earned five or more years prior to admission to a master's degree is not allowed to satisfy requirements.

UW-Madison University Special

With program approval, students are allowed to count up to 15 credits of coursework numbered 400 or above taken as a UW–Madison Special student toward the minimum graduate residence credit requirement, and the minimum graduate degree credit requirement. UW–Madison coursework taken as a University Special student would not be allowed to count toward the 50% graduate coursework minimum unless taken in courses numbered 700 or above. Coursework earned five or more years prior to admission to a master's is not allowed to satisfy requirements.

PROBATION

This program follows the Graduate School's Probation policy. (https://policy.wisc.edu/library/UW-1217/)

ADVISOR / COMMITTEE

Each student is required to meet with his or her advisor prior to registration every semester.

CREDITS PER TERM ALLOWED

15 credits

TIME LIMITS

Students are expected to complete the Aerospace MS degree program in one calendar year, i.e., 12 months (summer session plus two semesters). One additional semester is permitted to complete the requirements, if needed.

GRIEVANCES AND APPEALS

These resources may be helpful in addressing your concerns:

- Bias or Hate Reporting (https://doso.students.wisc.edu/bias-or-hate-reporting/)
- Graduate Assistantship Policies and Procedures (https://hr.wisc.edu/ policies/gapp/#grievance-procedure)
- Hostile and Intimidating Behavior Policies and Procedures (https:// hr.wisc.edu/hib/)
 - Office of the Provost for Faculty and Staff Affairs (https://facstaff.provost.wisc.edu/)
- Dean of Students Office (https://doso.students.wisc.edu/) (for all students to seek grievance assistance and support)
- Employee Assistance (http://www.eao.wisc.edu/) (for personal counseling and workplace consultation around communication and conflict involving graduate assistants and other employees, postdoctoral students, faculty and staff)

- Employee Disability Resource Office (https:// employeedisabilities.wisc.edu/) (for qualified employees or applicants with disabilities to have equal employment opportunities)
- Graduate School (https://grad.wisc.edu/) (for informal advice at any level of review and for official appeals of program/departmental or school/college grievance decisions)
- Office of Compliance (https://compliance.wisc.edu/) (for class harassment and discrimination, including sexual harassment and sexual violence)
- Office of Student Conduct and Community Standards (https://conduct.students.wisc.edu/) (for conflicts involving students)
- Ombuds Office for Faculty and Staff (http://www.ombuds.wisc.edu/) (for employed graduate students and post-docs, as well as faculty and staff)
- Title IX (https://compliance.wisc.edu/titleix/) (for concerns about discrimination)

Department of Mechanical Engineering Grievance Procedures

If a student feels unfairly treated or aggrieved by faculty, staff, or another student, the University offers several avenues to resolve the grievance. Students' concerns about unfair treatment are best handled directly with the person responsible for the objectionable action. If the student is uncomfortable making direct contact with the individual(s) involved, they should contact the advisor or the person in charge of the unit where the action occurred (program or department chair, section chair, lab manager, etc.). Many departments and schools/colleges have established specific procedures for handling such situations; check their web pages and published handbooks for information. If such procedures exist at the local level, these should be investigated first. For more information see the Graduate School Academic Policies & Procedures: https://grad.wisc.edu/ acadpolicy/?policy=grievancesandappeals. The Assistant Dean for Graduate Affairs (engr-dean-graduateaffairs@engr.wisc.edu) provides overall leadership for graduate education in the College of Engineering (CoE), and is a point of contact for graduate students who have concerns about education, mentoring, research, or other difficulties.

- The student is encouraged to speak first with the person toward whom the grievance is directed to see if a situation can be resolved at this level.
- 2. Should a satisfactory resolution not be achieved, the student should contact the Associate Chair for Graduate Studies or the John Bollinger Chair of Mechanical Engineering (https://engineering.wisc.edu/departments/mechanical-engineering/people/) to discuss the grievance. The Associate Chair for Graduate Studies or Department Chair will facilitate problem resolution through informal channels and facilitate any complaints or issues of students. The first attempt is to help students informally address the grievance prior to any formal complaint. Students are also encouraged to talk with their faculty advisors regarding concerns or difficulties if necessary. University resources for sexual harassment, discrimination, disability accommodations, and other related concerns can be found on the UW Office of Compliance website (https://compliance.wisc.edu/). Other campus resources can be found above.
- If the issue is not resolved to the student's satisfaction the student can submit the grievance to the Associate Chair for Graduate Studies in writing, within 60 calendar days of the alleged unfair treatment.
- 4. On receipt of a written complaint, a faculty committee will be convened by the Associate Chair for Graduate Studies to manage the

- grievance. The faculty committee will obtain a written response from the person toward whom the complaint is directed. This response will be shared with the person filing the grievance.
- 5. The faculty committee will determine a decision regarding the grievance. The Associate Chair for Graduate Studies will report on the action taken by the committee in writing to both the student and the party toward whom the complaint was directed within 15 working days from the date the complaint was received.
- 6. At this point, if either party (the student or the person toward whom the grievance is directed) is unsatisfied with the decision of the faculty committee, the party may file a written appeal. Either party has 10 working days to file a written appeal to the School/College.
- 7. Documentation of the grievance will be stored for at least 7 years.

 Significant grievances that set a precedent will be stored indefinitely.

The Graduate School has procedures for students wishing to appeal a grievance decision made at the school/college level. These policies are described in the Graduate School's Academic Policies & Procedures: https://grad.wisc.edu/acadpolicy/?policy=grievancesandappeals.

OTHER

Students are strongly discouraged to pursue positions as Project Assistants, Teaching Assistants or Research Assistants during their time in this program, as the rigor and accelerated nature of this program may not accommodate those work time commitments. Students in this program will not receive the tuition remission that is typically part of the compensation package for a graduate assistantship.

PROFESSIONAL DEVELOPMENT

GRADUATE SCHOOL RESOURCES

Take advantage of the Graduate School's professional development resources (https://grad.wisc.edu/pd/) to build skills, thrive academically, and launch your career.

PEOPLE

PROFESSORS

Darryl Thelen (Chair) Peter Adamczyk Mark Anderson Riccardo Bonazza Curt Bronkhorst Wendy Crone Christian Franck Jaal Ghandhi Sage Kokjohn Dan Negrut Gregory F. Nellis Tim Osswald Frank Pfefferkorn Xiaoping Qian Douglas Reindl David Rothamer Scott T. Sanders Krishnan Suresh Mario F. Trujillo

Lih-sheng Turng

Fabian Waleffe

ASSOCIATE PROFESSORS

Lianyi Chen
Melih Eriten
Katherine Fu
Tom N. Krupenkin
Ying Li
Franklin Miller
Sangkee Min
Wenxiao Pan
James Pikul
Pavana Prabhakar
Alejandro Roldan-Alzate
Michael Zinn

ASSISTANT PROFESSORS

Joseph Andrews Jennifer Franck Corinne Henak Eric Kazyak Allison Mahvi Luca Mastropasqua Jacob Notbohm Josh Roth Shiva Rudraraju Stephan Rudykh Eric Tervo Ramathasan Thevamaran Dakotah Thompson Michael Wagner Wei Wang Michael Wehner Jinlong Wu Xiaobin Xiong Xiangru Xu Lei Zhou

See also Mechanical Engineering Faculty Directory (https://directory.engr.wisc.edu/me/faculty/).

people