

# ENGINEERING MECHANICS: RESEARCH, MS

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

The master of science, research degree in engineering mechanics is offered within a graduate program covering contemporary areas in both theoretical and applied mechanics. With the guidance of a major professor, a program can be designed to meet an individual student's needs and interests.

This program is broadly structured into several main areas of instruction and research interests in fluid and solid mechanics: continuum mechanics, computational mechanics, dynamics and vibration, nanomechanics, and biomechanics. Related fields include civil and environmental engineering, chemical and biological engineering, electrical and computer engineering, materials science, mechanical engineering, nuclear engineering and engineering physics, physics, geological engineering and geology, mathematics, statistics, and computer science.

Current faculty research interests include contact mechanics, elastic instabilities, micromechanics, wave propagation, adhesion and friction, multi-scale and high-performance computational modeling, multi-physics mechanics and transport, biophysics, nanotechnology and nanomaterials, mechanics of soft materials, bio-inspired materials, polymer thin-films, and acoustic/elastic metamaterials.

Laboratories are well equipped for experimental testing and research; these include, atomic force microscopy, vibration testing, and other optical methods for experimental mechanics research. The department has access to collegewide facilities. The Wisconsin Laboratory for Structures and Materials Testing has facilities for testing large structures, fatigue and vibration labs, and complements the department's laboratories. The Nanoscale Imaging and Analysis Center provides state-of-the-art instrumentation, support facilities, and expert technical assistance for research and education in materials. Its facilities include scanning and transmission electron microscopes, image processing and analysis systems, surface and thin film characterization facilities, and x-ray diffraction facilities.

## ADMISSIONS

### 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/>).

Requirements	Detail
Fall Deadline	December 15
Spring Deadline	September 1
Summer Deadline	December 15
GRE (Graduate Record Examinations)	Not required.*
English Proficiency Test	Every applicant whose native language is not English, or whose undergraduate instruction was not exclusively in English, must provide an English proficiency test score earned within two years of the anticipated term of enrollment. Refer to the Graduate School: Minimum Requirements for Admission policy: <a href="https://policy.wisc.edu/library/UW-1241/">https://policy.wisc.edu/library/UW-1241/</a> .
Other Test(s) (e.g., GMAT, MCAT)	n/a
Letters of Recommendation Required	3

\* Submitted scores will not be used in admission decisions.

## 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 US bachelor's degree.

It is highly recommended that students take courses that cover the same material as these UW-Madison courses before entering the program:

Code	Title	Credits
<b>Advanced Mathematics</b>		<b>3</b>
MATH 319	Techniques in Ordinary Differential Equations	
or MATH 320	Linear Algebra and Differential Equations	
or MATH 321	Applied Mathematical Analysis	
<b>Linear Algebra and Matrices</b>		<b>3</b>
MATH 320	Linear Algebra and Differential Equations	
or MATH 340	Elementary Matrix and Linear Algebra	
<b>Mechanics of Materials</b>		<b>3</b>
E M A 303	Mechanics of Materials	
<b>Dynamics</b>		<b>3</b>
E M A 202	Dynamics	
or PHYSICS 311	Mechanics	

Descriptions of course content can be accessed through Guide (<https://guide.wisc.edu/courses/>). Applicants may be admitted without having taken these courses. However, in such cases the applicants must inform their advisors, who will help them plan courses of study that will provide adequate background for our department's graduate curriculum.

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 scale on the equivalent of the last 60 semester hours from the most recent bachelor's degree or a master's degree with a minimum cumulative GPA of 3.0 on a 4.0 scale.

## MS Thesis Track Advisor Selection Process

Applicants who intend to complete a thesis are encouraged to identify potential faculty advisors and seek a confirmation. Review the department Research (<https://engineering.wisc.edu/departments/mechanical-engineering/research/>) and People (<https://directory.engr.wisc.edu/me/faculty/>) websites and contact those whose research interests align with yours. Only faculty members listed with the titles of Assistant Professor, Associate Professor, or Professor, can serve as graduate advisors. Do not contact Emeritus faculty, Lecturers, Research Scientists, or Faculty Associates. You are also encouraged to inquire about possible funding opportunities. If a faculty member agrees to be your advisor, ask the person to email an acknowledgment to [emgradadmission@engr.wisc.edu](mailto:emgradadmission@engr.wisc.edu).

## APPLICATION MATERIALS

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

## Academic Transcripts

Within the online application, upload the undergraduate transcript(s) and, if applicable, the previous graduate transcript. Unofficial copies of transcripts are required for review, but official copies are required for admitted applicants. Do not send transcripts or any other application materials to the Graduate School or the Department of Mechanical Engineering unless requested. 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 and/or research 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.

## English Proficiency Score

International degree-seeking applicants must prove English proficiency using the Graduate School's requirements (<https://grad.wisc.edu/apply/requirements/>).

## Application Fee

Application submission must be accompanied by the one-time application fee. See the Graduate School for FAQs (<https://grad.wisc.edu/apply/>) for information on the application fee.

Fee grants are available, refer to the applying for a fee grant (<https://grad.wisc.edu/apply/fee-grant/>) for information.

## REENTRY ADMISSIONS

If previously enrolled as a graduate student in the Engineering Mechanics program, and applicants have not earned their degree, but have had a break in enrollment for a minimum of a fall or spring term, an application to resume studies is required. Review the Graduate School: Readmission (<https://policy.wisc.edu/library/UW-1230/>) for policy information. The previous faculty advisor (or another Engineering Mechanics faculty advisor) must be willing to supply advising support and should e-mail the Engineering Mechanics Graduate Student Services Coordinator regarding next steps in the process.

If 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, applicants are required to submit a new student application through the UW-Madison Graduate School online application. For Engineering Mechanics 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 Engineering Mechanics or a non-Engineering Mechanics graduate program, wishing to apply to this degree program should contact the Engineering Mechanics Graduate Admissions Team (see contact information box) 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, contact [emgradadmission@engr.wisc.edu](mailto:emgradadmission@engr.wisc.edu).

## FUNDING

### 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 RESOURCES

There are three mechanisms for Graduate Student funding through the university for MS Engineering Mechanics: Research students:

1. Fellowships
2. Graduate assistantships: project assistantships, teaching assistantships, and research assistantships
3. Traineeships

Funding is awarded based on the qualifications of the student, the number of applicants, the amount of available funding, the number of continuing students receiving support, and the degree program a student is enrolled in. Fellowship and research assistantship funding is only considered for thesis-based MS students. You can apply for funding for research assistantships by contacting individual faculty members directly. Please check our website (<http://directory.engr.wisc.edu/me/faculty/>) to look for faculty (only those listed with titles of assistant professor, associate professor, or professor can serve as graduate student advisors). Search for faculty who have research interests that align closely with your own by viewing faculty directory entries, visiting the faculty’s website (linked from the directory page), and reviewing publications by the faculty member. Once you have identified faculty with interests close to your own, you are encouraged to contact them by email to inquire regarding available research assistant positions. The admissions office does not know if a particular professor has research assistant positions available.

Students who apply to the MS Research program will be automatically considered for fellowship opportunities within the department. Admitted students will be eligible to apply for Teaching Assistantship positions. More information, including the application, will be available to students after admission is complete.

More information on graduate student funding is available from the UW-Madison Graduate School (<https://grad.wisc.edu/funding/>).

## ADDITIONAL RESOURCES

### Student 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. Private loans may also be available. Learn more about financial aid at the Financial Aid website (<https://financialaid.wisc.edu/>).

### International Student Services Funding and Scholarships

For information on International Student Funding and Scholarships, visit the International Student Services 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/#policiesandrequirements>), 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	No

### 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 Credit Requirement	30 credits
Minimum Residence Credit Requirement	16 credits
Minimum Graduate Coursework Requirement	15 credits must be graduate-level coursework. Refer to the Graduate School: Minimum Graduate Coursework (50%) Requirement policy: <a href="https://policy.wisc.edu/library/UW-1244">https://policy.wisc.edu/library/UW-1244</a> ( <a href="https://policy.wisc.edu/library/UW-1244/">https://policy.wisc.edu/library/UW-1244/</a> ).
Overall Graduate GPA Requirement	3.00 GPA required. Refer to the Graduate School: Grade Point Average (GPA) Requirement policy: <a href="https://policy.wisc.edu/library/UW-1203">https://policy.wisc.edu/library/UW-1203</a> ( <a href="https://policy.wisc.edu/library/UW-1203/">https://policy.wisc.edu/library/UW-1203/</a> ).
Other Grade Requirements	Students must earn a C or above in all formal coursework.

Students may not have more than two incompletes on their record at any one time.

Assessments and Examinations	A thesis is not required for a master’s degree in Engineering Mechanics. Credit for master’s research (E M A 790) will be granted toward meeting the MS requirements only when a formal MS thesis is submitted and approved by the thesis committee. If submitting a MS thesis, a thesis Oral Defense is required. Candidates must pass an oral exam administered by a three-member committee, selected by the student’s advisor. At least two of the committee members must be members of the UW-Madison Graduate Faculty. (For more information, see <a href="https://grad.wisc.edu/documents/committees">https://grad.wisc.edu/documents/committees</a> ( <a href="https://grad.wisc.edu/documents/committees/">https://grad.wisc.edu/documents/committees/</a> )). Typically, the student presents an overview of their thesis/ research, and then the examiners ask questions in closed session. See the Graduate School’s information <a href="https://grad.wisc.edu/current-students/masters-guide">https://grad.wisc.edu/current-students/masters-guide</a> ( <a href="https://grad.wisc.edu/current-students/masters-guide/">https://grad.wisc.edu/current-students/masters-guide/</a> ) and note the requirement for an advisor approval page.
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Language Requirements No language requirements.

## REQUIRED COURSES

Code	Title	Credits
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### General

The program requires 30 credits of technical coursework approved by the student's advisor.

**All courses must be numbered 500 or above. At least 15 credits must be taken in courses numbered 600 and above OR from the following list:** **15**

E M A/CIV ENGR/ M E 508	Composite Materials	
E M A 519	Fracture Mechanics	
E M A 522	Aerodynamics Lab	
E M A 523	Flight Dynamics and Control	
E M A/M E 540	Experimental Vibration and Dynamic System Analysis	
E M A/ M S & E 541	Heterogeneous and Multiphase Materials	
E M A/E P 547	Engineering Analysis I	
E M A/E P 548	Engineering Analysis II	
E M A/M E 570	Experimental Mechanics	

### Mathematics Requirements **3**

Students must take at least 3 credits (1 course) from the following list:

E M A/E P 547	Engineering Analysis I	
E M A/E P 548	Engineering Analysis II	
MATH 519	Ordinary Differential Equations	
MATH 521	Analysis I	
MATH 522	Analysis II	
MATH 540	Linear Algebra II	
MATH 619	Analysis of Partial Differential Equations	
MATH 623	Complex Analysis	
MATH 703	Methods of Applied Mathematics 1	
MATH 704	Methods of Applied Mathematics-2	
MATH/ COMP SCI 714	Methods of Computational Mathematics I	
MATH/ COMP SCI 715	Methods of Computational Mathematics II	

### Breadth Requirement

Students must take at least 5 courses from the list below. At least 3 must be identified by a \*. The courses must span at least 2 of the 3 areas defined below. For each of the 2 areas, the student must take at least 2 courses.

#### Solid Mechanics

E M A 506	Advanced Mechanics of Materials I *	3
E M A/CIV ENGR/ M E 508	Composite Materials	3
E M A 519	Fracture Mechanics *	3
E M A/M S & E 541	Heterogeneous and Multiphase Materials *	3
E M A/M E 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/E P 615	Micro- and Nanoscale Mechanics *	3
E M A 630	Viscoelastic Solids *	3
E M A 700	Theory of Elasticity *	3
E M A/M E 703	Plasticity Theory and Physics	3
E M A 705	Advanced Topics in Finite Elements *	3
E M A/M E 706	Plates, Shells and Pressure Vessels	3
E M A/M E 708	Advanced Composite Materials	3
E M A 710	Mechanics of Continua	3
E M A/M E 722	Introduction to Polymer Rheology	3
M E/B M E 516	Finite Elements for Biological and Other Soft Materials	3
M E 753	Friction, Lubrication and Wear	3
<i>Fluid Mechanics</i>		
E M A 521	Aerodynamics *	3
E M A 524	Rocket Propulsion *	3
E M A 710	Mechanics of Continua	3
M E 563	Intermediate Fluid Dynamics *	3
M E 572	Intermediate Gas Dynamics *	3
M E 573	Computational Fluid Dynamics *	3
M E 769	Combustion Processes	3
M E 770	Advanced Experimental Instrumentation	3
M E 774	Chem Kinetics of Combust Systems	3
M E/CIV ENGR/ E M A 775	Turbulent Heat and Momentum Transfer	3
MATH 705	Mathematical Fluid Dynamics	3
<i>Dynamics</i>		
E M A 523	Flight Dynamics and Control *	3
E M A/M E 540	Experimental Vibration and Dynamic System Analysis *	3
E M A 542	Advanced Dynamics *	3
E M A 545	Mechanical Vibrations *	3
E M A/ASTRON 550	Astrodynamic	3
E M A 610	Structural Finite Element Model Validation *	3
E M A 642	Satellite Dynamics *	3
E M A 742	Theory and Applications in Advanced Dynamics *	3
E M A 745	Advanced Methods in Structural Dynamics *	3
E M A 747	Nonlinear and Random Mechanical Vibrations *	3
M E/E C E 577	Automatic Controls Laboratory	4
M E 740	Advanced Vibrations	3
M E 747	Advanced Computer Control of Machines and Processes	3
or M E/E C E 733	Advanced Computer Control of Machines and Processes	
M E 748	Optimum Design of Mechanical Elements and Systems	3

### Depth Requirement **6**

At least 2 courses (6 credits) must be numbered 700 or above in mechanics, from the following list:

Any E M A course except E M A 790, E M A 890, or E M A 990.

E M A 601 Special Topics courses may only be counted as course numbered 700 or above if designated as such by the instructor.

CBE 720 Microhydrodynamics, Brownian Motion, and Complex Fluids

CIV ENGR/  
G L E 730 Engineering Properties of Soils

CIV ENGR/  
G L E 735 Soil Dynamics

MATH 705 Mathematical Fluid Dynamics

M E 740 Advanced Vibrations

M E 746 Dynamics of Controlled Systems  
or M E/  
E C E 732 Dynamics of Controlled Systems

M E 747 Advanced Computer Control of Machines and Processes

M E 748 Optimum Design of Mechanical Elements and Systems

M E 751 Advanced Computational Dynamics

M E 753 Friction, Lubrication and Wear

M E 769 Combustion Processes

M E 770 Advanced Experimental Instrumentation

M E 774 Chem Kinetics of Combust Systems

M E/CIV ENGR/  
E M A 775 Turbulent Heat and Momentum Transfer

### Independent Study/Research Credits

#### Thesis Pathway<sup>1</sup>

E M A 599 Independent Study (minimum of 3 credits)

E M A 790 Master's Research and Thesis (minimum of 6 credits)

#### Independent Study Pathway<sup>1</sup>

E M A 599 Independent Study (minimum of 3 credits)

<sup>1</sup> 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.

### Independent Study / Research

All students must take a minimum of 3 credits of E M A 599. A maximum of 6 credits of E M A 599 may be applied to the minimum credit requirement. Students in the thesis pathway may use a maximum of 12 credits of E M A 599 and E M A 790, combined, toward the minimum credit requirement. Credit for E M A 790 will be granted toward satisfying the MS requirements only when a formal MS thesis is submitted and approved by the thesis committee.

### Seminars

Up to 3 credits of Mechanics Seminar may be applied to the credit minimum requirement.

## 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 Credits Earned at Other Institutions

With faculty advisor approval, students may transfer up to 6 credits of relevant coursework from a prior graduate program. Review the Graduate Program Handbook (see contact box) for information about use and restrictions to this policy. Coursework earned ten or more years prior to admission is not allowed to satisfy requirements.

##### Undergraduate Credits Earned at Other Institutions or UW-Madison

With faculty advisor approval, students may transfer a maximum of 7 credits from a UW-Madison undergraduate degree or an ABET-accredited undergraduate degree (from another institution). Only coursework that is applicable to the degree curriculum is eligible (based on UW-Madison course/course equivalency number). These credits will not be allowed to satisfy minimum graduate coursework (50%) requirement unless taken in courses numbered 700 or above (UW-Madison course equivalent). No credits can be applied toward the minimum graduate residence credit requirement. Coursework earned ten or more years prior to admission is not allowed to satisfy requirements.

##### Credits Earned as a Professional Student at UW-Madison (Law, Medicine, Pharmacy, and Veterinary careers)

Refer to the Graduate School: Transfer Credits for Prior Coursework (<https://policy.wisc.edu/library/UW-1216/>) policy.

##### Credits Earned as a University Special Student at UW-Madison

With faculty advisor approval, students may transfer up to 15 credits of coursework taken as a UW-Madison University Special student toward the minimum credit requirement. Only coursework that is applicable to the degree curriculum is eligible. UW-Madison coursework taken as a University Special student would not be allowed to count toward the minimum graduate coursework (50%) requirement unless taken in courses numbered 700 or above or are taken to meet the requirements of a capstone certificate and has the "Grad 50%" attribute. Coursework earned ten or more years prior to admission is not allowed to satisfy requirements.

### PROBATION

The Department of Mechanical Engineering Graduate Committee academic progress policy may be reviewed in the Graduate Handbook (see Contact box for link).

## 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 with a Bachelor of Science in Engineering Mechanics or equivalent typically take 3 semesters to complete the Master of Science. Students with non-Engineering Mechanics backgrounds typically take 4 semesters to complete the Master of Science if more than 27 credits are required.

## 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, post-doctoral students, faculty and staff)
- Employee Disability Resource Office (<https://employee disabilities.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/departamental 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 ([enr-dean-graduateaffairs@enr.wisc.edu](mailto:enr-dean-graduateaffairs@enr.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.

1. 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.
3. 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

n/a

## PROFESSIONAL DEVELOPMENT

### 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

### 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

Yunus Alapan  
Joseph Andrews  
Jennifer Franck  
Corinne Henak  
Eric Kazyak  
Allison Mahvi  
Luca Mastropasqua  
Jacob Notbohm  
Josh Roth  
Shiva Rudraraju  
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/>).