BIOMEDICAL ENGINEERING: ACCELERATED PROGRAM, M.S.

This is a course-based named option within the Biomedical Engineering M.S. (http://guide.wisc.edu/graduate/biomedical-engineering/biomedical-engineering-ms/#text)

The Accelerated Program named option in the Biomedical Engineering M.S. is a non-thesis program with coursework focused on engineering and science to afford further preparation and training for students interested in careers in industry or pursuing advanced academic degrees.

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 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**

*

Complete spring applications as of September 1 are guaranteed review, but domestic applicants are welcome to apply up to November 1 and will be reviewed as space is available.

**

Not required for applicants with a UW–Madison Biomedical Engineering bachelor's degree.

Applicants should have a bachelor's degree in engineering (biomedical, chemical, electrical, industrial, mechanical, etc.) or science (biology, biochemistry, chemistry, genetics, immunology, physics, etc.). Each application is judged on the basis of:

- Official academic transcripts
- English Proficiency Test scores (https://grad.wisc.edu/apply/requirements/#english-proficiency) (if applicable)
- Three letters of recommendation
- Statement of purpose (https://grad.wisc.edu/apply/prepare/)
- Resume

All applicants must satisfy requirements that are set forth by the Graduate School (https://grad.wisc.edu/). Students admitted to the program may be required to make up deficiency course requirements.

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

OFFICIAL ACADEMIC TRANSCRIPT

Electronically submit one copy of your transcript of all undergraduate and previous graduate work in your online application to the Graduate School. Unofficial copies of transcripts will be accepted for review. Official copies are required after an applicant is recommended for admission. Please do not send transcripts or any other application materials to the Graduate School or the BME department unless requested. If you have questions, please contact bmegradadmission@engr.wisc.edu.

ENGLISH PROFICIENCY TEST SCORES (IF APPLICABLE)

The TOEFL is required for international students unless a degree from a U.S. educational institution is held. Scores should be sent using **institution code 1846.**

An applicant whose TOEFL (iBT) score is below 92; TOEFL (PBT) score is below 580; or IELTS score is below 7 must take an English assessment test upon arrival. Depending on the result, an applicant may need to register for recommended English as a Second Language (ESL) courses in the first semester of enrollment.

THREE LETTERS OF RECOMMENDATION

These letters are required from people who can accurately judge the applicant's academic performance. Letters of recommendation are submitted electronically to graduate programs through the online application. Applicants should not send any more than three letters (if more than three are sent, only the first three will be considered). See the Graduate School for FAQs (https://grad.wisc.edu/apply/) regarding letters of recommendation.

STATEMENT OF PURPOSE

In this document, applicants should explain why they want to pursue further education in BME. 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.

APPLICATION FEE

Submission must be accompanied by the one-time application fee. It is non-refundable and can be paid by credit card (Master Card or Visa) or debit/ATM. This fee cannot be waived or deferred. Fee grants are available through the Graduate School under certain conditions.

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.

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

Requirements	Detail
Minimum Credit Requirement	30 credits
Minimum Residence Credit Requirement	16 credits
Minimum Graduate Coursework Requirement	15 credits must be graduate-level coursework. Details can be found in the Graduate School's Minimum Graduate Coursework (50%) policy (https://policy.wisc.edu/library/UW-1244 (https://policy.wisc.edu/library/UW-1244/)).
Overall Graduate GPA Requirement	3.00 GPA required. This program follows the Graduate School's policy: https://policy.wisc.edu/library/UW-1203 (https://policy.wisc.edu/library/UW-1203/).
Other Grade Requirements	n/a
Assessments and Examinations	There are no degree-specific assessments and examinations outside of those given in individual courses.
Language Requirements	None.

REQUIRED COURSES

The required coursework is designed to complement each student's interests and background in biomedical engineering.

Code	Title	Credits
General Requirements		
2 semesters of B M E 701		2
Bioscience credits		3
Engineering credits, numbered 400 and above		12
Elective credits selected in consultation with advisor		7-13
Project or Independent Study (B M E 790 or B M E 799)		0-6
Total Credits		**30**

Students choose one of the following areas of specialization. Of the credits above, 15 credits must be in one area of specialization.

Biomaterials and Tissue Engineering [1]

Biomaterials and tissue engineering employ a diverse range of approaches to develop methods to diagnose and treat diseases, create living tissue environments that may be used to restore the function of a damaged organ, and uncover biological mechanisms related to tissue development and disease. Graduate students trained in biomaterials and tissue engineering are expected to gain a detailed understanding of cellular and molecular biology, materials science, and engineering methods.

Code	Title	Credits
Required courses:		
At least 3 credits of Bioscience. Relevant options include:		*3 or more*
CRB 640	Fundamentals of Stem Cell and Regenerative Biology	
CRB 650	Molecular and Cellular Organogenesis	
CRB/B M E 670	Biology of Heart Disease and Regeneration	

ONCOLOGY 401	Introduction to Experimental Oncology	
ZOOLOGY 570	Cell Biology	
ZOOLOGY 630		
At least 12 credits of Engineering. Relevant options include:		*12 or more*
B M E/ PHM SCI 430	Biological Interactions with Materials	
B M E 510	Introduction to Tissue Engineering	
B M E 511	Tissue Engineering Laboratory	
B M E 520	Stem Cell Bioengineering	
B M E 545	Engineering Extracellular Matrices	
B M E 550	Introduction to Biological and Medical Microsystems	
B M E 602	Special Topics in Biomedical Engineering (Advanced Stem Cell Engineering)	
B M E 630	Nanomaterials for Biomedical Applications	
CBE 540	Polymer Science and Technology	
CBE 648	Synthetic Organic Materials in Biology and Medicine	
CBE 781	Biological Engineering: Molecules, Cells & Systems	
CHEM 654	Materials Chemistry of Polymers	
M S & E 521	Advanced Polymeric Materials	
Electives (taken in consultation with your faculty advisor):		
B M E 556	Systems Biology: Mammalian Signaling Networks	
B M E/CBE 560	Biochemical Engineering	
B M E/ MED PHYS/ PHMCOL-M/PHYSICS/ RADIOL 619	Microscopy of Life	
B M E 740	Biomanufacturing Entrepreneurship	
B M E/CHEM/ MED PHYS 750	Biological Optical Microscopy	
B M E/CBE 782	Modeling Biological Systems	
B M E/CBE 783	Design of Biological Molecules	
B M I/STAT 541	Introduction to Biostatistics	
B M I/ COMP SCI 776	Advanced Bioinformatics	
COMP SCI 765	Data Visualization	
STAT/F&W ECOL/ HORT 571	Statistical Methods for Bioscience I	
STAT/B M I 877	Statistical Methods for Molecular Biology	

Biomechanics [1]

Biomechanists use experiments and computational tools to investigate the mechanical aspects of biological systems, at levels ranging from whole organisms to organs, tissues, and cells. Graduate students trained in biomechanics are expected to gain a detailed understanding of mechanics, mathematics, biology, and engineering.

Code	Title	Credits
Required courses:		
At least 3 credits of a Bioscience. Relevant options include:		*3 or more*
ANAT&PHY 335	Physiology	
ANAT&PHY 435	Fundamentals of Human Physiology	
CRB/B M E 670	Biology of Heart Disease and Regeneration	
KINES 773	Cardiorespiratory Adaptions to Environment and Exercise	
ZOOLOGY 570	Cell Biology	
At least 12 credits of Engineering. Relevant options include:		*12 or more*
B M E/M E 414	Orthopaedic Biomechanics - Design of Orthopaedic Implants	
B M E/M E 415	Biomechanics of Human Movement	
B M E/M E 505	Biofluidics	
B M E/M E 516	Finite Elements for Biological and Other Soft Materials	
B M E/I SY E 564	Occupational Ergonomics and Biomechanics	
B M E 603	Special Topics in Bioinstrumentation and Medical Devices (Image-Based Biomechanics)	
B M E/M E 615	Tissue Mechanics	
B M E/I SY E 662	Design and Human Disability and Aging	
B M E/M E 715	Advanced Tissue Mechanics	
M E/E M A 540	Experimental Vibration and Dynamic System Analysis	
M E/CIV ENGR/ E M A 508	Composite Materials	
M E 563	Intermediate Fluid Dynamics	
M E/E M A 570	Experimental Mechanics	
M E 573	Computational Fluid Dynamics	
E M A 506	Advanced Mechanics of Materials I	
E M A 519	Fracture Mechanics	
E M A/ M S & E 541	Heterogeneous and Multiphase Materials	
E M A 545	Mechanical Vibrations	
E M A 605	Introduction to Finite Elements	
E M A/E P 615	Micro- and Nanoscale Mechanics	
E M A 622	Mechanics of Continua	
E M A 630	Viscoelastic Solids	
Electives (taken in consultation with your faculty advisor):		
B M E/ MED PHYS/ PHMCOL-M/PHYSICS/ RADIOL 619	Microscopy of Life	
B M I/STAT 541	Introduction to Biostatistics	
COMP SCI 368	Learning a Programming Language	
MATH 443	Applied Linear Algebra	
MATH 519	Ordinary Differential Equations	
MATH 619	Analysis of Partial Differential Equations	

M E/STAT 424	Statistical Experimental Design
M E/E C E 439	Introduction to Robotics
M E/COMP SCI/ E C E 532	Matrix Methods in Machine Learning

Biomedical Imaging and Optics [1]

Biomedical imaging and optics research develops and utilizes new experimental and computational tools to characterize tissue structure across multiple size scales. A particular focus is on human health, especially with respect to achieving superior diagnostic/prognostic tools for a spectrum of diseased states. Graduate students trained in this track are expected to gain a detailed understanding of mathematics, biology and engineering as well as optical and/or physical methods.

Code	Title	Credits
Required courses:		
At least 3 credits of Bioscience. Relevant options include:		*3 or more*
ANAT&PHY 335	Physiology	
BIOCHEM 501	Introduction to Biochemistry	
ZOOLOGY 570	Cell Biology	
At least 12 credits of Engineering. Relevant options include:		*12 or more*
B M E/H ONCOL/ MED PHYS/ PHYSICS 501	Radiation Physics and Dosimetry	
B M E/ MED PHYS 530	Medical Imaging Systems	
B M E/ MED PHYS 573	Mathematical Methods in Medical Physics	
B M E/ MED PHYS 574	Data Science in Medical Physics	
B M E/ MED PHYS 575	Diagnostic Ultrasound Imaging	
B M E/ MED PHYS 578	Non-Ionizing Diagnostic Imaging	
B M E/ MED PHYS 580	The Physics of Medical Imaging with Ionizing Radiation	
B M E/ MED PHYS/ PHMCOL-M/PHYSICS/ RADIOL 619	Microscopy of Life	
B M E/ MED PHYS 710	Advances in Medical Magnetic Resonance	
B M E/CHEM/ MED PHYS 750	Biological Optical Microscopy	
B M E 751	Biomedical Optics and Biophotonics	
B M E/E C E/ MED PHYS 778	Machine Learning in Ultrasound Imaging	
B M E 780	Methods in Quantitative Biology	
MED PHYS 777	Principles of X-ray Computed Tomography	
Electives (taken in consultation with your faculty advisor):		
B M I/ COMP SCI 567	Medical Image Analysis	
COMP SCI 300	Programming II	
COMP SCI 320	Data Science Programming II	
COMP SCI 368	Learning a Programming Language	
COMP SCI/ E C E 766	Computer Vision	
COMP SCI/ B M I 767	Computational Methods for Medical Image Analysis	
E C E/ COMP SCI 533	Image Processing	
E C E/COMP SCI/ M E 539	Introduction to Artificial Neural Networks	
MATH 443	Applied Linear Algebra	
M E/COMP SCI/ E C E 532	Matrix Methods in Machine Learning	

Medical and Microdevices [1]

Medical and microdevices involve the use of electronic and computational tools to develop devices used in diagnosis and treatment of disease ranging from the systemic to the cellular and molecular levels.

Code	Title	Credits
Required courses:		
At least 3 credits of Bioscience. Relevant options include:		*3 or more*
ANAT&PHY 335	Physiology	
BIOCHEM 501	Introduction to Biochemistry	
BIOCHEM/ GENETICS/ MICROBIO 612	Prokaryotic Molecular Biology	
BIOCHEM/ GENETICS/ MD GENET 620	Eukaryotic Molecular Biology	
PATH 750	Cellular and Molecular Biology/ Pathology	
ZOOLOGY/ PSYCH 523	Neurobiology	
ZOOLOGY 570	Cell Biology	
ZOOLOGY 630		
At least 12 credits of Engineering. Relevant options include:		*12 or more*
B M E/E C E 462	Medical Instrumentation	
B M E 515	Therapeutic Medical Devices	
B M E/ MED PHYS 535	Introduction to Energy-Tissue Interactions	
B M E 550	Introduction to Biological and Medical Microsystems	
B M E 602	Special Topics in Biomedical Engineering (Introduction to Neuroengineering)	
B M E 640	Medical Devices Ecosystem: The Path to Product	
B M E 651	Biophotonics Laboratory	
B M E/CHEM/ MED PHYS 750	Biological Optical Microscopy	
Electives (taken in consultation with your faculty advisor):		
COMP SCI 300	Programming II	
COMP SCI 320	Data Science Programming II	
COMP SCI 368	Learning a Programming Language (multiple 1-credit options, including R, C++, and Matlab)	

MATH 443	Applied Linear Algebra
MATH 519	Ordinary Differential Equations
MATH 619	Analysis of Partial Differential Equations

Neuroengineering [1]

Neuroengineering is the convergence of neuroscience, computation, device development, and mathematics to improve human health. Neuroengineering brings together state-of-the-art technologies for the development of devices and algorithms to assist those with neural disorders. It is also used to reverse engineer living neural systems via new algorithms, technologies and robotics. Students pursing this track are involved in all of these endeavors so that as the next generation of engineers, they will transcend the traditional boundaries of neuroscience, technology, engineering and mathematics.

Code	Title	Credits
Required courses:		
At least 3 credits of Bioscience. Relevant options include:		*3 or more*
ANAT&PHY 335	Physiology	
KINES 721	Neural Basis for Movement	
KINES 861	Principles of Motor Control and Learning	
NTP/ NEURODPT 610	Cellular and Molecular Neuroscience	
NTP/NEURODPT/ PSYCH 611	Systems Neuroscience	
NTP 735	Neurobiology of Disease	
PSYCH 610	Design and Analysis of Psychological Experiments I	
PSYCH 733	Perceptual and Cognitive Sciences	
ZOOLOGY 625	Development of the Nervous System	
At least 12 credits of Engineering. Relevant options include:		*12 or more*
B M E/E C E 462	Medical Instrumentation	
B M E/E C E 463	Computers in Medicine	
B M E 515	Therapeutic Medical Devices	
B M E 520	Stem Cell Bioengineering	
B M E 550	Introduction to Biological and Medical Microsystems	
B M E 602	Special Topics in Biomedical Engineering (Introduction to Neuroengineering)	
B M E 640	Medical Devices Ecosystem: The Path to Product	
E C E/COMP SCI/ I SY E 524	Introduction to Optimization	
E C E/ COMP SCI 533	Image Processing	
E C E/COMP SCI/ M E 539	Introduction to Artificial Neural Networks	
NTP/ MED PHYS 651	Methods for Neuroimaging Research	
Electives (taken in consultation with your faculty advisor):		
COMP SCI 320	Data Science Programming II	
COMP SCI 368	Learning a Programming Language (multiple 1-credit options, including R, C++, and Matlab)	
COMP SCI/ B M I 567	Medical Image Analysis	
COMP SCI/ E C E 766	Computer Vision	
COMP SCI/ B M I 767	Computational Methods for Medical Image Analysis	
MATH 443	Applied Linear Algebra	

Systems and Synthetic Biology [1]

Systems and synthetic biology utilizes experimental and computational tools in an iterative fashion to analyze and regulate biological systems.

Code	Title	Credits
Required courses:		
At least 3 credits of Bioscience. Relevant options include:		*3 or more*
BIOCHEM 570	Computational Modeling of Biological Systems	
BIOCHEM 919	Synthetic Biology Seminar	
BIOCHEM 501	Introduction to Biochemistry	
BIOCHEM/ GENETICS/ MICROBIO 612	Prokaryotic Molecular Biology	
BIOCHEM/ GENETICS/ MD GENET 620	Eukaryotic Molecular Biology	
BIOCHEM 729	Advanced Topics	
ZOOLOGY 570	Cell Biology	
ZOOLOGY 630		
At least 12 credits of Engineering. Relevant options include:		*12 or more*
B M E 550	Introduction to Biological and Medical Microsystems	
B M E 556	Systems Biology: Mammalian Signaling Networks	
B M E 780	Methods in Quantitative Biology	
B M E/CBE 560	Biochemical Engineering	
CBE 781	Biological Engineering: Molecules, Cells & Systems	
CBE/B M E 782	Modeling Biological Systems	
CBE 660	Intermediate Problems in Chemical Engineering	
Electives (taken in consultation with your faculty advisor):		
B M I/STAT 541	Introduction to Biostatistics	
B M I/ COMP SCI 576	Introduction to Bioinformatics	
B M I/ COMP SCI 775	Computational Network Biology	
B M I/ COMP SCI 776	Advanced Bioinformatics	
B M I 826	Special Topics in Biostatistics and Biomedical Informatics	
COMP SCI 368	Learning a Programming Language (multiple 1-credit options available, including R, C++, and Matlab)	

MATH 443	Applied Linear Algebra
MATH 519	Ordinary Differential Equations
MATH 619	Analysis of Partial Differential Equations

Footnotes

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.

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

This program follows the Graduate School's policy for Satisfying Requirements with Prior Graduate Coursework from Other Institutions. (https://policy.wisc.edu/library/UW-1216/) Reach out to the BME Graduate Coordinator for more information.

UW–Madison Undergraduate

A student who has completed their bachelor's degree at UW-Madison may transfer 6 credits of coursework with program approval. These courses must be engineering or advanced biological sciences coursework numbered 400 or above. Coursework earned five or more years prior to admission to a M.S. degree is not allowed to satisfy requirements. These courses may not be used toward the Graduate School's Minimum Graduate Residence Credit.

UW–Madison University Special

This program follows the Graduate School's policy for Transfer from UW–Madison University Special Student Career at UW–Madison. (https://policy.wisc.edu/library/UW-1216/) Reach out to the BME Graduate Coordinator for more information.

PROBATION

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

ADVISOR / COMMITTEE

This program follows the Graduate School's Advisor policy (https://policy.wisc.edu/library/UW-1232/).

CREDITS PER TERM ALLOWED

15 credits

TIME LIMITS

The accelerated MS program is typically completed in less than 18 months.

This program follows the Graduate School's Time Limits policy (https://policy.wisc.edu/library/UW-1221/).

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://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)

BME 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.

Step 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. Students are also encouraged to talk with their faculty advisors regarding concerns or difficulties, or reach out to the Graduate Student Services Coordinator or Associate Chair of BME Graduate Advising for additional assistance. These activities do not rise to the level of a formal grievance;

however, the student is encouraged to keep documentation of these interactions as they may be useful if a formal grievance is pursued.

Step 2

Should a satisfactory resolution not be achieved, a formal grievance can be filed with the BME Grievance Committee. To do so, the student contacts the Department Administrator, who will provide the student with the name of the current chair of the Grievance Committee. The student will then contact the Chair of the Grievance Committee, who will reply within seven calendar days. If the grievance is with the current Chair of the Grievance Committee, please let the Department Administrator know and they will identify an alternate committee member to contact. It is advised that grievances are filed within 60 calendar days of the alleged unfair treatment to enable a thorough investigation.

Step 3

If the student does not feel comfortable working through the departmental process, they are encouraged to seek out other campus resources including:

- The Assistant Dean for Graduate Affairs in the College of Engineering
- The Graduate School
- UW Division of Diversity, Equity & Educational Achievement (DDEEA)
- McBurney Disability Resource Center
- Employee Assistance Office
- Ombuds Office
- University Health Services

Step 4

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 ten working days to file a written appeal to the School/College. For more information, students should consult the College of Engineering Academic Advising Policies and Procedures.

Step 5

Documentation of the grievance will be stored for at least seven 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 and Procedures.

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.

PROGRAM RESOURCES

THE INDIVIDUAL DEVELOPMENT PLAN (IDP)

An Individual Development Plan (IDP) (https://grad.wisc.edu/pd/idp/) helps graduate students and postdoctoral researchers:

- assess current skills, interests, and strengths;
- make a plan for developing skills to meet academic and professional goals; and
- communicate with supervisors, advisors, and mentors about evolving goals and related skills.

The IDP is a document to be revisited again and again, to update and refine as goals change and/or come into focus, and to record progress and accomplishments.

The university **recommends** IDPs for all postdoctoral researchers and graduate students, and **requires** IDPs for all postdoctoral researchers and graduate students supported by National Institutes of Health (NIH) funding. See the Graduate School for more information and IDP resources (https://grad.wisc.edu/pd/idp/).

ENGINEERING CAREER SERVICES

The Engineering Career Services (https://ecs.wisc.edu/) staff offers assistance to students searching or preparing for internships, co-ops, and jobs with well-recognized organizations.

THE WRITING CENTER

The Writing Center (https://writing.wisc.edu/) is a campus-wide organization that provides free of charge, face-to-face and online consultations for students writing papers, reports, resumes, and applications.

PEOPLE

FACULTY

Paul Campagnola (Chair)
Randolph Ashton
David Beebe
Walter Block
Christopher Brace
Kevin Eliceiri
Shaoqin 'Sarah' Gong
Aviad Hai
Melissa Kinney
Pamela Kreeger
Wan-ju Li
Kip Ludwig
Kristyn Masters
Megan McClean
Beth Meyerand
William Murphy
Krishanu Saha
Melissa Skala
Darryl Thelen
Justin Williams
Colleen Witzenburg
Filiz Yesilkoy

INSTRUCTIONAL STAFF AND TEACHING FACULTY

Amit Nimunkar
John Puccinelli
Tracy Jane Puccinelli
Darilis Suarez-Gonzalez
Aaron Suminski

See also Biomedical Engineering Faculty Directory (http://directory.engr.wisc.edu/bme/).