



UNIVERSITY OF CENTRAL FLORIDA

Materials Science and Engineering PhD Graduate Program Handbook

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Materials Science and Engineering PhD

Together, the [Graduate Student Handbook](#) and your graduate program handbook should serve as your main guide throughout your graduate career. The Graduate Student Handbook includes university information, policies, requirements and guidance for all graduate students. Your program handbook describes the details about graduate study and requirements in your specific program. While both of these handbooks are wonderful resources, know that you are always welcome to talk with faculty and staff in your program and in the Graduate College.

The central activities and missions of a university rest upon the fundamental assumption that all members of the university community conduct themselves in accordance with a strict adherence to academic and scholarly integrity. As a graduate student and member of the university community, you are expected to display the highest standards of academic and personal integrity.

Here are some resources to help you better understand your responsibilities:

- [Academic Honesty](#)
- [Academic Integrity Training](#) - Open to all graduate students at no cost
- [Plagiarism](#)

Introduction

Program Mission

The primary mission of this PhD program is to educate and train students in the field of materials science and engineering. The students are expected to gain proficiency in selected areas of materials science and engineering thereby advancing materials technology, attaining prominence, and supplying a workforce to the critical technology needs.

The Materials Science and Engineering PhD program requires a minimum of 72 credit hours beyond the bachelor's degree. The program requires 27 hours of formal course work exclusive of independent study and a minimum of 15 hours of dissertation research (7980). However, no more than a total of 12 credit hours of directed research, doctoral research or independent study may be included in the 72 hour total minimum course work requirement. The remaining hours in the PhD program can be chosen by the student in consultation with the adviser and the dissertation committee and with the approval of the MSE Program Coordinator.

Unless a completed (signed) plan of study itemizing the study plan is approved prior to the end of the 9 credit hours (typically the first semester) of studies, the program coordinator may choose not to accept any part of the course work (including independent studies and/or directed research) taken by the student on a plan of study subsequently submitted by the student.

Elective Courses: 57 Credit Hours

The program requires a minimum of 57 credit hours of elective courses approved by a faculty adviser, with no more than 12 hours of directed research (6918), doctoral research (7919) or independent study (6908). At least 27 hours must be formal course work, exclusive of independent study.

Dissertation: 15 Credit Hours

EMA 7980 is the Materials Science and Engineering program course subject and number for dissertation. Each student who has successfully completed their candidacy examination in a prior semester must be enrolled in at least 3 hours of dissertation in order to maintain full-time student status. Also, a student must be continuously enrolled (including summer) in dissertation hours once they have received post-candidacy status.

Curriculum

Please visit the [Graduate Catalog](#) to see the current curriculum for our program.

Timeline for Completion

Optional Timeline for Students with Materials Background

1st Year of Graduate Training

Fall	Spring	Summer
<ul style="list-style-type: none">• EMA 5106 Metallurgical Thermodynamics• EMA 6126 Physical Metallurgy• Elective	<ul style="list-style-type: none">• EMA 6626 Mechanical Behavior of Materials• EMA 5317 Materials Kinetics• Elective	<ul style="list-style-type: none">• Directed Research, optional
Semester Total: 9 credit hours	Semester Total: 9 credit hours	Semester Total: 6 credit hours

2nd Year of Graduate Training

Fall	Spring	Summer
<ul style="list-style-type: none">• Elective	<ul style="list-style-type: none">• Elective	<ul style="list-style-type: none">• Directed Research, optional
Semester Total: 9 credit hours	Semester Total: 9 credit hours	Semester Total: 6 credit hours

3rd Year of Graduate Training

Fall	Spring	Summer
<ul style="list-style-type: none">• Electives• Candidacy Exam	<ul style="list-style-type: none">• EMA 7980: Dissertation	EMA 7980: Dissertation
Semester Total: 9 credit hours	Semester Total: 3 credit hours	Semester Total: 3 credit hours

4th Year of Graduate Training

Fall	Spring	Summer
<ul style="list-style-type: none">EMA 7980: Dissertation	<ul style="list-style-type: none">EMA 7980: Dissertation	<ul style="list-style-type: none">EMA 7980: Dissertation
Semester Total: 3 credit hours	Semester Total: 3 credit hours	Semester Total: 3 credit hours

Total Credit Hours: 72

Optional Timeline for Students WITHOUT a Materials Background

1st Year of Graduate Training

Fall	Spring	Summer
<ul style="list-style-type: none">EMA 5104 Intermediate Structure and Properties of MaterialsEMA 5106 Metallurgical ThermodynamicsElective	<ul style="list-style-type: none">EMA 6626 Mechanical Behavior of MaterialsEMA 5317 Materials KineticsElective	<ul style="list-style-type: none">Directed Research, optional
Semester Total: 9 credit hours	Semester Total: 9 credit hours	Semester Total: 6 credit hours

2nd Year of Graduate Training

Fall	Spring	Summer
<ul style="list-style-type: none">EMA 6126 Physical Metallurgy	<ul style="list-style-type: none">Elective	<ul style="list-style-type: none">ElectivesQualifying Exam
Semester Total: 9 credit hours	Semester Total: 9 credit hours	Semester Total: 6 credit hours

3rd Year of Graduate Training

Fall	Spring	Summer
<ul style="list-style-type: none">ElectivesCandidacy Exam	<ul style="list-style-type: none">EMA 7980: Dissertation	EMA 7980: Dissertation
Semester Total: 9 credit hours	Semester Total: 3 credit hours	Semester Total: 3 credit hours

4th Year of Graduate Training

Fall

- EMA 7980: Dissertation

Semester Total: 3 credit hours

Spring

- EMA 7980: Dissertation

Semester Total: 3 credit hours

Summer

- EMA 7980: Dissertation

Semester Total: 3 credit hours

Total Credit Hours: 72

Examination Requirements

Qualifying Exam

Usually taken within the first two years. The doctoral qualifying exam is offered twice each year, during fall and spring. This is a two-day written examination consisting of open and/or closed book questions and is intended to evaluate the student's mastery of the field of Materials Science and Engineering. The subject matter for the examination includes undergraduate-level materials science topics in general, and includes the graduate level topics that are covered by the required courses of the MS degree. The MSE faculty determines the questions and grading of the exam, which is done on a pass/fail basis. Students have to pass both the open and closed book portions of the exam. The whole exam or one of the two portions may be re-taken at the discretion of the MSE faculty. For additional information, please visit mse.ucf.edu/qualifying-exam-dates/.

Candidacy Exam

The candidacy exam is scheduled by mutual agreement of the student and his/her dissertation committee. The student must prepare a written description of their proposed dissertation research. This document is shared with the committee prior to the examination. Additionally, the student must present their proposed dissertation research to their dissertation committee during the candidacy examination. The student may also be questioned orally by his/her committee during the examination. This is typically on topics relevant to the proposed dissertation research. The exam may be re-taken at the discretion of the dissertation committee.

Admission to Candidacy

A student must demonstrate his or her readiness for the PhD program by successfully completing the candidacy examination before admission to full doctoral status and enrollment into dissertation hours. The candidacy examination should be taken when the student is nearing the end of course work. The exam is administered by the members of the student's dissertation advisory committee. External committee members of the dissertation advisory committee are not appointed until after the student has passed the Candidacy exam. Admission to candidacy will be approved by the Program Coordinator and College then forwarded to the UCF College of Graduate Studies prior to the first day of classes for the term in order to enroll in dissertation hours (EMA 7980) for that term.

Doctoral students admitted to candidacy are expected to enroll in dissertation hours and to devote full-time effort to conducting their dissertation research and writing the required dissertation document. Students in doctoral candidacy must continuously enroll in at least three hours of dissertation course work (EMA 7980) each semester (including summer) until the dissertation is completed. Students wishing to enroll in part-time hours should consult with their adviser.

Dissertation Requirements

The following is from the [UCF Graduate Catalog Dissertation Requirements](#) section:

"Dissertations are required in all UCF PhD and EdD programs. The dissertation consists of an original and substantial research study designed, conducted, and reported by the student with the guidance of the dissertation committee. The written dissertation must include a common theme with an introduction and literature review, details of the study, and results and conclusions prepared in accordance with program and university requirements. The dissertation is expected to represent a significant contribution to the discipline. Since this work must be original, it is very important that care is taken in properly citing ideas and quotations of others. Failure to do so is academic dishonesty and subject to termination from the program without receiving the degree. An oral defense of the dissertation is required."

Dissertation Advisory Committee Membership

Doctoral students must have a Dissertation Advisory Committee prior to the Candidacy Examination. The Committee must consist of a minimum of five members: four must be faculty members of the graduate program faculty approved to direct dissertations, one of whom is qualified to serve as Chair, and one must be at large from outside the degree program. The committee Chair must be a member of the graduate faculty approved to direct dissertations. Adjunct faculty and off-campus experts may serve as the outside-the-college person in the committee. Program areas may further specify additional committee membership. The College of Graduate Studies reserves the right to review appointments to advisory committees, place a representative on any advisory committee, or appoint a co-adviser. Graduate Faculty members must form the majority of any given committee. Additional information regarding the criteria for serving as a member, co-chair, or chair of a Dissertation Advisory Committee and responsibilities of the advisory committee is provided in the updated [Graduate Dissertation policy](#).

Committee membership must be approved by the Program Coordinator and submitted to the College of Graduate Studies. All members must have expertise in fields related to the dissertation topic. The UCF College of Graduate Studies reserves the right to review appointments to a dissertation advisory committee, place a representative on any dissertation advisory committee, or appoint a co-chair. A student may request a change in membership of the dissertation advisory committee with the approval of the program director and re-submission to the College of Graduate Studies.

In unusual cases, with approval from the department Chair, a professor may serve as a co-chair of a committee. Joint faculty members may serve as committee chairs, but off-campus experts and adjunct faculty may not serve as committee chairs.

All members vote on acceptance or rejection of the dissertation proposal and the final dissertation. The dissertation proposal and final dissertation must be approved by a majority of the advisory committee.

It is the responsibility of the student, with agreement from their committee members, to schedule the date, time and location of their candidacy exam. There are room reservation programs available online, which can be used to schedule a classroom and/or conference room on campus. The student can seek the assistance of the MSE program assistant if they need assistance with scheduling the room facilities.

University Dissertation Requirements

The College of Graduate Studies [Thesis and Dissertation page](#) contains information on the university's requirements for dissertation formatting, format review, defenses, final submission, and more. A step-by-step completion guide is also available on [Thesis and Dissertation Services](#) Site.

All university deadlines are listed in the [Academic Calendar](#). Your program or college may have other earlier deadlines; please check with your program and college staff for additional deadlines.

The following requirements must be met by dissertation students in their final term:

- Submit a properly formatted file for initial format review by the format review deadline
- Submit the Thesis and Dissertation Release Option form well before the defense
- Defend by the defense deadline
- Receive format approval (if not granted upon initial review)
- Submit signed approval form by final submission deadline
- Submit final dissertation document by final submission deadline

Students must format their dissertation according to the standards outlined in [Thesis and Dissertation Webcourse](#). Formatting questions or issues can be submitted to the Format Help page in the [Thesis and Dissertation Services](#) site. Format reviews and final submission must be completed in the [Thesis and Dissertation Services](#) site. The Dissertation Approval Form is also available in the Thesis and Dissertation Services site.

The College of Graduate Studies offers several thesis and dissertation [Workshops](#) each term. Students are highly encouraged to attend these workshops early in the dissertation process to fully understand the above policies and procedures.

The College of Graduate Studies thesis and dissertation office is best reached by email at editor@ucf.edu.

Dissertation Defense

Usually scheduled after completing and writing the dissertation. This exam determines whether the student has done satisfactory work and fully understands the work that he or she has done. The oral defense of the dissertation is administered by the dissertation committee which makes a critical inquiry into the work reported in the dissertation and into the areas of knowledge that are immediately relevant to the research. All members vote on acceptance or rejection of the dissertation. The dissertation must be approved by a majority of the Committee. The committee has the final say on whether the student passes or fails.

Scheduling a Room

It is the student's responsibility to schedule a room for their doctoral defense. They must make sure that it can seat all who may be in attendance and is equipped with all the necessary media capabilities that would be required for their defense presentation. Room reservation assistance is available online through the College of Engineering. Students may also speak with the program assistant if needing guidance regarding choosing a room for their defense. Students must make sure to reserve the room well in advance of their defense date to ensure a quality location.

cecs.ucf.edu/graddefense

Defense Announcement

All students, upon agreement and approval from the dissertation chair/faculty advisor, must supply a defense announcement TWO WEEKS prior to their defense date, as it will be posted on the College of Engineering website. The defense announcement should include the following information: date, time, location, committee member names, dissertation title, abstract and that the defense is open to the public.

Committee Members Present

To participate in the candidacy and/or dissertation prospectus examination, the entire committee shall be present for the oral part of the examination. It shall be conducted on campus, unless there is an accepted joint degree program with another university that specifies a different arrangement that has been approved by the university.

Paperwork/Forms Completed During Defense

Prior to every defense, the program assistant will organize all necessary paperwork that needs to be completed by committee chair and all other committee members during the student's doctoral defense. It is the responsibility of the student to pick up these forms, have them filled out by the appropriate members, and submitted back to the program assistant for filing.

Annual Review

Information projected to be entered in 2019-2020.

Graduate Research

Research is a vital part of graduate education, particularly for doctoral students. The development of research skills and the practice of good research ethics begin with graduate study. Faculty serve a crucial role and are the primary source for teaching research skills and modeling research ethics.

In the Materials Science and Engineering program, much of our research is carried out as a part of contracted sponsored research. Faculty obtain sponsored research from many different government agencies, and/or industry, and thus commit the university to doing certain research tasks. Students are typically hired to help the faculty conduct the research, and as such are contractually obligated to give their "best efforts" to accomplishing the research tasks. In most cases, students who are supported on contracts may use the results of their work as the basis for their thesis or dissertation.

It is important to be honest and ethical in conducting research as well as in taking classes. Report all data factually and completely. Please see the Graduate Catalog for policies pertaining to [Academic Behavior Standards](#).

Patents and inventions may arise from the faculty and graduate student research. In most cases, UCF owns the intellectual property developed using university resources. The graduate student as inventor will according to this policy share in the proceeds of the invention. UCF has clear guidelines and a [Patent Invention Policy](#) detailed in the UCF Graduate Catalog.

There are specific Laboratory Safety Procedures that must be followed by each student working in a lab. It is the program policy that each student is responsible for knowing and following the Safety Procedures. Please see the laboratories manager and/or your faculty advisor to get a copy of the Safety Procedures for the appropriate lab.

UCF's Office of Research & Commercialization ensures the UCF community complies with local, state and federal regulations that relate to research. For policies including required Institutional Review Board (IRB) approval when conducting research involving human subjects (e.g. surveys), animal research, conflict of interest and general responsible conduct of research, please see the website research.ucf.edu/ > Compliance.

Financial Support

Financial support is a major concern for graduate students, especially since many rely on financial support from the University to pursue graduate study. In combination, the College, the University, and the Department provide financial assistance to graduate students in several ways: (1) fellowships and scholarships are available to academically outstanding students, (2) Graduate Teaching Assistantships – GTAs (for grading or for lab teaching) are available in limited numbers, (3) Graduate Research Assistantships – GRAs (for assisting faculty with research) are more widely available in the MSE program and depend on the research funding available to individual faculty.

Assistantships

All students are expected to maintain a 3.0 GPA in their Plan of Study. They must not make any more than two 'C' grades, and those must be balanced with two 'A' grades. Students on contract are expected to work 10 to 20 hours per week on their assigned tasks (whether it be grading, lab teaching, or research), while they are maintaining satisfactory progress in completing their academic courses.

Students must meet their obligations to continue to receive their financial support. Students on assistantship agreements must maintain satisfactory work as defined by their supervisor. Also, being on an assistantship agreement requires that the students register for the proper number of hours of classes in time to process tuition remission and to meet other academic requirements.

The duration of financial support may vary from one academic year at a time to up to a 4-year renewable fellowship.

International students are expected to be here as full-time students, and may not work off campus except under very strict conditions. For information about the types of employment available to international students, and the requirements and restrictions based on visa type, see the International Affairs and Global Strategies' website: global.ucf.edu/ > Students > Employment.

Tuition Support and Health Insurance

Tuition support and student health insurance correspond with a student's assistantship. If a student is working full-time (20 hours/week) as a Graduate Research Assistant (GRA) or a Graduate Teaching Assistant (GTA), they automatically qualify for in-state tuition remission and health insurance. Their in-state tuition will either be waived (if GTA) or paid on their behalf by their research advisor (if GRA). Nonresident students who have full assistantships (20 hours/week) will also receive a differential out-of-state rate that will charge them \$0.00 for nonresident tuition and financial aid fee during the terms of the appointment. Tuition remission information along with frequently asked questions can be found on the College of Graduate Studies website. Information regarding paid health insurance coverage for qualifying graduate assistantship and university fellowship students can also be located on the College of Graduate Studies [Funding](#) website.

Graduate Student Associations

The Graduate Student Association (GSA) is UCF's graduate organization committed to enrich graduate students' personal, educational and professional experience. To learn more or get involved, please visit facebook.com/groups/UCFgsa/. For individual department or graduate program organizations, please see program advisor.

[American Society of Materials International \(ASM\)](#) disseminates technical information related to materials science and engineering, and enhances the professional preparation of members through information-sharing and interaction among members in forums and meetings, routine chapter activities and publications.

[American Society of Mechanical Engineers \(ASME\)](#) promotes and enhances the technical competency and professional well-being of our members, through quality programs and activities in mechanical engineering.

[American Institute of Aeronautics and Astronautics \(AIAA\)](#) broadens the horizons of students interested in Aerospace Engineering and aid their futures in Aerospace engineering by bridging the gap between students and the industry.

[Students for the Exploration and Development of Space \(SEDS\)](#) promotes space exploration and the drive to become a space fairing civilization by providing members with experience on real life projects.

[The Florida Engineering Society](#) prepares engineering students of all disciplines for the high level of performance and responsibility that is required to succeed in today's job market, while providing the opportunity to develop professional relationships with professional engineers, educators and peers.

[National Society of Black Engineers \(NSBE\)](#) strives to increase the number of culturally responsible black engineers who excel academically, succeed professionally, and positively impact the community.

[Society of Hispanic Professional Engineers \(SHPE\)](#) promotes the development of Hispanics in engineering, science and other technical professions.

[Society of Women Engineers \(SWE\)](#) is a useful resource for women in technical fields including engineering.

[Student Panel for Engineering and Computer Science](#) promotes student interests and achievements within the College and to the technical community at-large, serving as an advisory board to the Dean of the College of Engineering and Computer Science and as a coordinating body for college-wide events.

[Theta Tau Professional Engineering Fraternity](#) develops and maintains a high standard of professional interest among its members.

Professional Development

Instructional Strategies and Resources

The Faculty Center for Teaching and Learning provides classes and programs designed to assist graduate students with the educational issues they face in the classroom as teaching assistant or as instructors. These resources include assistance in course design and syllabi development, learning theories, and the use of different technologies in the classroom or on the internet. Further information on these resources is available at fctl.ucf.edu/index.php.

Pathways to Success Workshops

Coordinated by the College of Graduate Studies, the Pathways to Success program offers free development opportunities for graduate students including workshops in Academic Integrity, Graduate Grantsmanship, Graduate Teaching, Personal Development, Professional Development, and Research. For more information and how to register, please visit graduate.ucf.edu/pathways-to-success/.

Graduate Research Forum

The Research Forum will feature poster displays representing UCF's diverse colleges and disciplines.

The Research Forum is an opportunity for students to showcase their research and creative projects and to receive valuable feedback from faculty judges. Awards for best poster presentation in each category will be given and all participants will receive recognition.

The College of Graduate Studies and the Graduate Student Association invite all UCF students, community, and employers to attend the Graduate Research Forum. For more information, contact researchweek@ucf.edu.

Graduate Excellence Awards

Each year, the College of Graduate Studies offers graduate students who strive for academic and professional excellence the opportunity to be recognized for their work. The award categories include the following:

Award for Excellence by a Graduate Teaching Assistant – This award is for students who provide teaching support and assistance under the direction of a lead teacher. This award focuses on the extent and quality of the assistance provided by the student to the lead instructor and the students in the class. (Not intended for students who are instructor of record)

Award for Excellence in Graduate Student Teaching – This award is for students who serve as instructors of record and have independent classroom responsibilities. The focus of this award is on the quality of the student's teaching and the academic contributions of those activities.

Award for the Outstanding Dissertation – It recognizes doctoral students for excellence in the dissertation. The focus of this award is on the quality and contribution of the student's dissertation. Excellence of the dissertation may be demonstrated by evidence such as, but not limited to: publications in refereed journals, awards and recognitions from professional organizations, and praise from faculty members and other colleagues in the field.

For the nomination process and eligibility criteria, see graduate.ucf.edu/awards-and-recognition/.

For information about the Council of Southern Graduate Schools (CSGS) thesis and dissertation awards, see their website: csgs.org/ > Awards.

For grant-proposal writing resources see: uwc.cah.ucf.edu/ > Writing for Graduate School.

Professional development opportunities in this discipline are available through research, clinical experiences and participation in student professional organizations.

Job Search

UCF's Career Services department offers a wide range of programs and services designed to assist graduate students. These services include evaluation and exploration of career goals, preparation for the job search and job search resources. To learn more, visit their website at career.ucf.edu/.

For specific services or resources provided by the academic program, please visit the [Career webpage](#) on the Department of Mechanical, Materials and Aerospace Engineering [website](#).

Forms

- [College of Engineering and Computer Science Forms](#)
The College offers a variety of forms online for you to view, download, and print.
- [College of Graduate Studies Forms and References](#)
A complete listing of general forms and references for graduate students, with direct links, may be found here.
- [Graduate Petition Form](#)
When unusual situations arise, petitions for exceptions to policy may be requested by the student. Depending on the type of appeal, the student should contact his/her program adviser to begin the petition process.
- [Traveling Scholar Form](#)
If a student would like to take advantage of special resources available on another campus but not available on the home campus; for example, special course offerings, research opportunities, unique laboratories and library collections, this form must be completed and approved.
- [UCF Global Forms](#)
International students may access required forms and files from this site.

Useful Links

- [Materials Science and Engineering](#)
- [College of Engineering and Computer Science](#)
- [College of Graduate Studies](#)

- [Academic Calendar](#)
- [Bookstore](#)
- [Campus Map](#)
- [Counseling Center](#)
- [Financial Assistance](#)
- [Golden Rule Student Handbook](#)
- [Graduate Catalog](#)
- [Graduate Student Association](#)
- [Graduate Student Center](#)
- [Housing and Residence Life](#)
- [Housing, off campus](#)
- [Knights Email](#)
- [Library](#)
- [NID Help](#)
- [Office of Student Involvement](#)
- [Pathways to Success](#)
- [Recreation and Wellness Center](#)
- [Shuttles Parking Services](#)
- [Student Health Services](#)
- [Thesis and Dissertation \(ETD\)](#)
- [UCF Global](#)
- [University Writing Center](#)

Grad Faculty

Asterisk = has previous committee experience, which qualifies the person to serve as vice chair

An, Linan *

College: College of Engineering and Computer Science

Disciplinary affiliations: Materials Science and Engineering

Research interests: Ceramics High-temperature Sensors Nanostructured Materials, Nanocomposites

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Banerjee, Parag *

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Disciplinary affiliations: Materials Science and Engineering

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Challapalli, Suryanarayana *

College: College of Engineering and Computer Science

Disciplinary affiliations: Materials Science and Engineering

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Chow, Lee *

College: College of Sciences

Disciplinary affiliations: Materials Science and Engineering

Research interests: Synthesis of II-VI Semiconductor Thin Films and Nanostructures, Chemical Bath Deposition, Nanofabrication Using FIB, Diffusion in Nanomaterials

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Websites: <http://physics.ucf.edu/~lc/>

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Optics and Photonics
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Dong, Yajie *

College: College of Engineering and Computer Science
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Fang, Jiyu *

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Fenton, James *

College: College of Engineering and Computer Science
Disciplinary affiliations: Materials Science and Engineering
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Heinrich, Helge *

College: College of Sciences
Disciplinary affiliations: Materials Science and Engineering
Research interests: Materials Science, Condensed Matter Physics, Electron Scattering, Nanomaterials
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Leon, Lorraine

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Mohajeri, Nahid *

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Mukhopadhyay, Kausik

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Roy, Tania

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Schelling, Patrick *

College: College of Engineering and Computer Science
Disciplinary affiliations: Materials Science and Engineering
Research interests: Computational Physics, Computational Materials Science, Condensed Matter Physics
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Sohn, Yongho *

College: College of Engineering and Computer Science
Disciplinary affiliations: Materials Science and Engineering
Research interests: Diffusion in Solids, Materials Kinetics, Multicomponent Intrinsic and Interdiffusion in Multiphase Alloys including Phase-Field Simulation, Thermal Barrier Coatings and Protective Metallic/Ceramic Coatings, Oxidation, Hot Corrosion and Other Environmental Degradation in Gas Turbines, Thermotransport and Irradiation-Enhanced Diffusion in Research and Next-Generation Nuclear Fuels and Claddings, Kinetic Energy Materials and Superlight-Weight Metal-Matrix Composites, Processing, Microstructure and Property Relations in Materials, Materials Characterization, Physical Metallurgy, Phase Transformations and Materials Thermodynamics
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Tetard, Laurene*

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Vaidyanathan, Raj *

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Disciplinary affiliations: Materials Science and Engineering
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