



TEAM **M** MSE

It's definitely Febrrrrruary

No worries, though. With freezing temperatures moving in and forcing us even deeper into hibrrrrnation, we have just the thing to warm you up: "MSE recommends." Over the next several weeks we will list what you think is the hottest media - from TV shows to TikTok videos to books. This week we're featuring favorite podcasts. So, if you're in the mood to learn something new and/or be inspired, check out what others recommend for you. There's something there for everyone. We also have a blizzard of new events and job/internship opportunities to share, so grab a shovel and dig in!

Questions, comments or ideas for TeamMSE? Contact Kristen at krisfres@umich.edu.

We'd love to hear from you!



Campus COVID Status

Stay-in-place order lifted, but high number of U-M cases remain a concern

The Washtenaw County Health Department's stay in place recommendation for all U-M students was lifted Sunday night but our guards still need to stay up as U-M cases now make up **34% of all cases in Washtenaw County**. As of Friday, 11 off-campus group living residences were under house-wide quarantine due to multiple cases among residences or in-person gatherings during the Stay in Place recommendation.

Graduate students now required to test regularly

Starting February 16, ALL STUDENTS - including graduate and

professional students - who live on or come to campus will be required to get tested weekly. Students can get tested through the [U-M Community Sampling and Tracking Program](#) or [University Health Service \(UHS\)](#). As a reminder, students who test positive for COVID-19 off campus should [report their test results](#) to the university, in order to help protect the community.

Note: If you have previously tested positive for COVID-19, you are excluded from testing for a 90-day period from the date of your test. If you were tested by the U-M Community Sampling and Tracking Program, University Health Service or Occupational Health Services, your result will automatically be captured. If you were tested elsewhere, [please submit your positive results here](#) - this has a 2 to 3-day delay to get into ResponsiBLUE.

Testing available at Pierpont

Convenient, saliva-based testing is available at **Pierpont Commons**, Boulevard Room (1st floor Mezzanine behind Fireside Cafe) **Monday-Friday, 9:00 a.m.-4:30 p.m.**

ResponsiBLUE

If you are coming to campus for any reason, use of this tool is required. As of yesterday, Feb. 8, all graduate and professional students will see the weekly COVID-19 testing status box in your ResponsiBLUE app. If you are up-to-date with testing through U-M, your last test date will display. For others, your screen will default to a test status of “Completed” with an expiration date of Feb. 16.

You will have until Feb. 16 to get into compliance with the weekly COVID-19 testing expectation.

Graduation 2021 will be virtual

The University announced last week that Graduation 2021 will be a virtual event. We will bring you more details as they unfold over the next several weeks.

[Click here for U-M's COVID-19 Dashboard](#)

Upcoming Events



Special DEI Lecture Friday: Felice Frankel of MIT

A science photographer and research scientist at MIT, Professor Felice Frankel will present "More Than Pretty Pictures" this Friday, February 12, at 10:30 am. Zoom link: <https://umich.zoom.us/j/9502642724>, passcode 369312

Free Coffee and Donuts every Wednesday!

CoE will be providing free coffee and donuts **every Wednesday morning** outside the Duderstadt Connector from **10-11:00 a.m.** All students who are currently on campus and using the ResponsiBLUE app are invited to stop by and grab a juice/coffee and/or donut to go!



MSE Undergraduate Open House February 15



Materials Science & Engineering Virtual Open House

February 15 ♦ 5:00 p.m.

[Register here](#)

MSE will host a virtual Undergraduate Open House on **Monday, February 15** at **5:00 p.m.** Spread the word!

MSE Recommends: Podcasts



For our inaugural "MSE Recommends" series, we asked MSE students for their favorite podcasts; their wide-ranging picks are listed below (so much variety!). Click on each title to read more about the podcast. Thanks to everyone who made a contribution. Next week we will be featuring **favorite TV shows/series/movies**, so if you have a show you'd like to include, add it to [this form](#).

Happy listening!

Materials Science

- [Materialism](#) by Dr. Taylor Sparks @ University of Utah
- [It's a Material World](#) by Punith & Tom from Georgia Tech

Science

- [Science Rules! with Bill Nye](#)
- [Planetary Radio](#)

Celebrity/Conversations

- [Bill Gates and Rashida Jones Ask Big Questions](#)
- [The Michelle Obama Podcast](#)
- [Oprah: Supersoul Conversations](#)

Comedy

- [MBMBaM](#) - Comedy podcast under the guise of giving advice, often answering silly yahoo questions
- [The Dollop](#)
- [The Joe Rogan Experience](#)
- [This Might Get Weird](#)
- [Harmontown](#)

Current Events/Quiz Show

- [Wait, Wait...Don't Tell Me](#) - npr

Economics

- [Capitalisn't](#)

History

- [Hardcore History](#) by Dan Carlin

Horror

- [Archive 81](#)
- [The Magnus Archives](#)

Music

- [Dissect](#) - "This podcast analyzes music albums. Each season covers one album and each episode covers a song or two. It completely changed the way I think about art and music. I cannot recommend it enough."

Personal Growth/Well-being

- [Unlocking Us/Dare to Lead](#) - Brené Brown
- [Optimal Living Daily](#)
- [The Happiness Lab](#) with Dr. Laurie Santos

True Crime

- [S-Town](#)
- [Serial](#)

Next week will feature your favorite TV shows/movies, so be sure to add your



U-M community invited to share experiences, give input at campus policing forum tonight



Provost Susan M. Collins and the Advancing Public Safety at the University of Michigan Task Force invite you to a forum for community members to share their experiences with campus policing and public safety tonight, **Tuesday, February 9, 7-8:30 p.m.**

Community members interested in speaking about their experiences with overall public safety on campus or with DPSS specifically, can do so by [registering online](#). Community members also are invited to share their input [through a survey](#), which will be available until Feb. 15. Input from the forum will help identify what is going well and areas for improvement as it relates to fostering public safety and securing a campus environment that encourages

academic excellence. The survey results and the session input will be used to inform the task force's preliminary findings and a final report is expected to be publicly presented at the end of April.

[Join on Zoom.](#)

Next Tea Time Tangent Feb. 19

The next Tea Time Tangent, led by MSE DEI Undergraduate representative Angelica Rose Gavan, will be **Friday, Feb. 19** from **3:00-4:00 p.m.** Sign up [here](#) by this Friday, Feb. 12 to receive a free packet of tea or Chamberlain coffee bag in time for the next Tea Time Tangent. (Even if you don't want a coffee/tea bag, we ask that you still sign up so we can gauge expected attendance.)





February 2021

DEI LECTURE SERIES

That Ain't Right: AI Mistakes and Black Lives



Presented by Odest Chadwicke Jenkins

Professor of Electrical Engineering and Computer Science

Associate Director of the Michigan Robotics Institute

FEBRUARY 18

12-1 pm | Presented via Zoom

Our nation is poised to invest billions of dollars to remain the leader in artificial intelligence as well as quantum computing. This investment is critically needed to reinvigorate the science that will shape our future.

In order to get the most from this investment, we have to create an environment that will produce innovations that are not just technical advancements but will also benefit and uplift everybody in our society. We are increasingly seeing how AI is having a pervading impact on our lives, both for good and for bad.

This talk will explore the causes of systemic inequality in AI, the impact of this inequity within the field of AI and across society today, and offer thoughts for the next wave of AI inference systems for robotics that could provide introspectability and accountability. Ideas explored build upon the [BlackInComputing.org](https://blackincomputing.org) open letter and "[Before we put \\$100 billion into AI...](#)" opinion.

Equal opportunity for anyone requires equal opportunity for everyone.

RSVP

DEI Student Allies Mailbox

Share your feedback on the DEI program and/or ask the DEI student allies questions: <https://forms.gle/98uKGHPbcAMzCF3B7>



Internship/Job Opportunities



Student Internship opportunity

Joyworks (Ann Arbor) has an immediate need for an MSE student intern. It is hands-on work in the process and product development area working in a "maker" environment. Interested students please contact Chip Keough: jkeough@joyworksstudio.com



Apple
Product
Design

Alloy
Engineering
Internship

Alloy Engineering Product Design Internship at Apple

Apple is currently seeking enthusiastic Metallurgical and Materials Science Engineering students that will provide support to alloy design, engineering, failure analysis, microstructural characterization, and materials modeling and validation activities for all hardware product lines. The intern position will be available as early as September 2021, concluding before September 2022.

As a member of a cross-functional Product Design team at Apple, you will help create the next generation of the world's finest hardware devices. You will work closely with a team of metallurgists to conceive, design, test, and validate metals and products that will re-define the user experience. You will also work with cross-functional teams within Apple and with outside vendors to fabricate and characterize alloys and components.

While we can employ students for the summer of 2022 for this program, we strongly prefer candidates who are available for more than one semester during the fiscal year (e.g. winter + summer) for the most effective and impactful internship experience.

Required Experience

- Working towards a BS, MS or PhD in Metallurgy, Materials Science or related Engineering field*
- Flexibility and comfort working in a quickly changing environment
- Strong oral, written, and visual communication skills
- Strong physical metallurgy background
- Ability to work in fast paced, team-based environment
- Self-motivating, creative, proactive, and resourceful

Desired Experience

- Metallographic sample preparation and mechanical testing
- Light optical microscopy and scanning electron microscopy (SEM)
- Fractography and failure analysis of metals and alloys
- Laboratory experience with metal alloys and structure-property relationships
- Computational thermodynamics and materials design

***You must be enrolled in school or have applied to graduate school to qualify for an internship. Recent graduates who have NOT applied to graduate school are not eligible.*

Contact

Please send questions and resumes to Isabel Yang at isabel_yang@apple.com, and include “Alloy Engineering Internship” in the email subject.



Job Opening: Applications Scientist

Nanoscience Instruments is hiring an applications scientist for their demonstration and analytical laboratory in Phoenix. If you have a background in surface science, they are hiring a PhD level scientist to support QCM-D, optical and force tensiometers, and nanoparticle generation instrumentation.

Job Responsibilities:

- Perform product demonstrations at application labs or at customer sites
- Perform online product demonstrations, perform sample analysis and provide sample analysis reports
- Work with product manager and sales team to meet goals for product sales
- Works with product manager and marketing to develop marketing strategy for assigned products
- Develop expertise in key applications supporting product
- Requirements:
- Experience with QCM-D, AFM or other similar analytical technique
- Chemistry, Physics, or Engineering PhD with a focus on surface science
- Willingness and ability to travel domestically and internationally
- Because this position requires access to Government, Military, and other high security labs, U.S. citizenship is required.

Submit resume to Matt Dixon: mdixon@mail.nanoscience.com. Learn more about the position [here](#).



59 postdoctoral opportunities listed!

Application deadline Feb. 26, 2021

The Intelligence Community (IC) Postdoctoral Research Fellowship Program offers scientists and engineers from a wide variety of disciplines unique opportunities to conduct research in a wide range of topics relevant to the Intelligence Community. The research is conducted by the Postdocs, while working in partnership with a Research Advisor and collaborating with an advisor from the Intelligence Community.

The Program supports postdocs to conduct research at universities, colleges, and U.S. government laboratories throughout the United States.

In partnership with the Research Advisor, the Postdoc composes and submits a technical proposal that responds to a research opportunity identified at: <https://orise.orau.gov/icpostdoc/current-opportunities.html>

Award Details:

- Stipends range from \$75,000 to \$79,000, depending on research location.
- Annual travel budget of up to \$6,000
- Appointments for two years, and option to extend for a third year
- Host institutions receive an annual laboratory budget of up to \$5,000.
- Advisors receive a \$10,000 stipend and a travel budget of up to \$2,000.

Postdoc Eligibility:

- U. S. citizenship required
- Ph.D. received within 5 years of the application deadline

Learn More



Sandia National Labs announces a full-time postdoctoral position for in-situ Microscopy in Extreme Environments. Location is Albuquerque, NM; job posting closes February 18. Learn more [here](#).



Summer internships are now being posted on a regular basis on the [Corning website](#) (go to "search jobs" in upper right-hand corner and type in "intern"). Students who have at least completed their sophomore year are encouraged to apply.

Last Laugh

Congratulations to our own Michigan Man Tom Brady for winning his 7th Super Bowl on Sunday, at the ripe old age of 43!



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