

MS&E

Welcome Packet

Prepared by: MS&E DE&I Committee
October 2021

HELLO PROSPECTIVE MS&E GRADUATE STUDENTS!

Whether you are an undergraduate or graduate student looking to find out more about Management Science and Engineering - this is the packet for you! We have compiled a list of resources to give you insight into MS&E. For more information about our curriculum and/or specific courses, please visit our website or ExploreCourses. You can also contact Lori Cottle at lcottle@stanford.edu or Lindsey Akin at lakin@stanford.edu for specific questions and/or help creating a four-year plan. We hope that you enjoy this guide and use it as a comprehensive primer intro to the program!

Sincerely,
Stanford MS&E Diversity Equity and Inclusion Committee

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WHAT IS MS&E?

AND WHAT CAN YOU DO WITH AN MS&E DEGREE?

MS&E is an interdisciplinary program at the intersection of engineering, business, and public policy. It is a broad program which aims to foster both quantitative and qualitative skills to prepare our graduates to enter a wide range of fields, from technology enterprises to non-profit spaces to financial institutions and beyond.

Below we have some student and alumni spotlights to give you insight into what our current students and graduates are up to, as well as some statistics on employment opportunities after graduation.

Q&A WITH ALUMS

[Sean Howard, MS \(2021\)](#)
[Saron Dea, BS \(2021\)](#)
[Tyreke White, MS \(2018\)](#)
[Jacqueline Wibowo, MS \(2018\)](#)
[Allison Pitt, PhD \(2016\)](#)
[Daniel Lopez, MS \(2009\)](#)
[Tony Martinez, BS \(1986\)](#)

STUDENT SPOTLIGHTS

CLASS OF '20 & '21

[2020 PhD Candidates \(article\)](#)
[Ali Shameli, PhD \(podcast\)](#)
[Barbara Cardona, BS \(podcast\)](#)
[Pablo Hernandez, MS \(podcast\)](#)
[Guillermo Camarillo, BS \(podcast\)](#)
[Andrea Banuet Gonzalez, MS \(article\)](#)



CAREER STATS & PLACEMENT

Click below to see what our MS and PhD students are doing after graduation. You'll see what industries they go into, what job titles they have, and what companies they work for!

[MS Employment Information](#)

[PhD Employment Information](#)

GATEWAY FOR PROSPECTIVE GRADUATE STUDENTS

Explore the Prospective Grad Gateway to find the resources you need to begin your graduate career at Stanford. [Click here](#) to learn about graduate applications, academics, DE&I, professional development, fellowships and more.

MS&E CONCENTRATIONS

Why MS&E?

Management Science & Engineering is at the forefront of solving complex and real-world problems through education and research. We advance the design, management, operation, and interaction of technological, economic, and social systems. Read more about some of the tracks you can take in MS&E below.

Research Labs

MS&E has many research centers, groups, and labs. Research areas include:

- [Computational Social Science](#)
- [Decision Analysis and Risk Analysis](#)
- [Economics and Finance](#)
- [Organizations Technology and Entrepreneurship](#)
- [Probability and Stochastic Systems](#)
- [Operations Management](#)
- [Strategy and Policy](#)
- [Systems Modeling and Optimization](#).

STVP Programs

If you are interested in entrepreneurship opportunities, check out the following STVP (Stanford Technology Venture) programs:

- [Accel Leadership Program](#) is a six-month program that prepares students to lead entrepreneurial ventures through workshops and team-based case study projects.
- [Threshold Ventures Fellowship](#) is for Stanford School of Engineering master's students interested in entrepreneurial ventures, Threshold Venture Fellows (TVF) program guides fellows to engage in deep discussions on entrepreneurial leadership

And more!

Click the follow links to learn more about different MS&E Programs:

- [Academic & Admissions](#)
- [Coterm](#)
- [MS](#)
- [PhD](#)

DIVERSITY EQUITY & INCLUSION

Diversity is a fundamental value of the MS&E department. We value the academic, social, and broader community benefits that come from engaging with different viewpoints. We want our community to include and be supportive of perspectives from backgrounds that vary by race, ethnicity, socioeconomic status, religion, gender, age, ability, sexual orientation, veteran status, and national origin. MS&E is committed to fostering this diversity and recognizes its responsibility in creating welcoming and inclusive spaces for all of its students. While not exhaustive of everything available to support URM students at Stanford, the links here are great places to start exploring Stanford's DE&I resources.

The Stanford First-Generation, Low-Income (FLI) Office

The [FLI office](#) at Stanford offers a welcoming space for FLI [undergraduate](#) and [graduate](#) students at the heart of campus on the second floor of Old Union. Stop by to work, grab snacks, attend FLI office-hours, and take advantage of the graduate resources below:

- [Graduate Grant-In Aid](#)
- [Additional Financial Support](#)

FOR OUR

BLACK
HISPANIC/LATINX
NATIVE
WOMXN IN STEM
LGBTQ+
FLI
DISABILITY
AND OTHER URM
COMMUNITIES

RESOURCES

MS&E D&I Committee:

The Diversity and Inclusion Committee audits and reports on department practices, works to increase diversity in MS&E, and communicates and coordinates with campus groups on issues related to diversity and inclusion. You may leave (anonymous) comments or suggestions for the committee [here](#). Visit our [website](#) for more information.

Student Organizations

VSOs can help you find community with other students who share your interests, background, and/or identities. Click for more info on VSOs for [Black](#), [Hispanic/Latinx](#), [Native](#), and [LGBTQ+](#) individuals and for [womxn in STEM](#) and [Business](#).

MS&E Opportunity Fund

Our opportunity fund is designed to help cover the financial cost of course materials for students facing financial hardships. The application can be found [here](#).

BLACK LIVES MATTER



FUNDING OPPORTUNITIES

FOR GRADUATE STUDENTS



Funding Opportunities for PhD Students



MS&E guarantees funding for the duration of your PhD program! Financial support is guaranteed as long as students making satisfactory progress.

For more information about your funding package please contact Lori Cottle at lcottle@stanford.edu

Funding Opportunities for Masters Students

Research Assistantships

MS&E has limited funding available for Masters students. One option is Research Assistantships (RA), which provide tuition credit, a salary, and the opportunity to work with faculty on research projects. It's important to note that students are rarely offered RA positions in their first quarter at Stanford. Faculty members usually offer RA positions to students they have worked with in class or have talked with in some detail. If you are interested in obtaining an RA position, here is a plan of action you might consider:

- **Fall Quarter** - Take as many seminars as you can to learn about the various faculty in MS&E and their research projects. When you've identified faculty you might be interested in working with, ask them if you might sit in on a meeting of their research group. This will be a great way for you to get first-hand knowledge of what goes on in these meetings, and to see if you think being an RA is for you.
- **Winter Quarter** - Narrow the field to the faculty member you most want to work with and ask if you can do an independent study project with the faculty member as your advisor. A quarter spent in this way will give the two of you a chance to get to know each other both professionally and personally.
- **Spring Quarter** - Perhaps your efforts will lead to an opportunity for an RA position in this or a future quarter.

Course Assistantships

Each quarter, the MS&E department emails out a list of courses seeking Course Assistants (CA) and a google form for you to apply to those positions. Like RAs, CAs can receive tuition credit and a salary. If you have any questions about becoming a CA, please reach out to Lori Cottle, Student Services Officer (lcottle@stanford.edu).

Fellowships

Check out the following fellowships that can help you fund your program:

- [Graduate Fellowships for STEM Diversity](#)
- [Additional Calculus for Engineers \(ACE\) Tutor](#): For more information and to apply to be a tutor, email Lourdes Andrade (lourdesa@stanford.edu)
- [Wade Scholarship Program offered by WIT](#): While the deadline for this fellowship has passed for this academic year, you can apply for it next year!
- [GEM Fellowship Program](#): For more information, email Lourdes Andrade (lourdesa@stanford.edu)
- [Other fellowships](#)

For additional resources please check out the following brochures: [Why Stanford?](#)
[Expanding What's Possible in Graduate Education](#)

MS&E EVENTS

Why do we host them?

Here at the Stanford MS&E department, we prioritize facilitating engagement between our students and leading industry experts. The world is a dynamic place, and we want our students to be well equipped to have their positive impact on it.

Contact

Linda Angel Esquivel is MS&E's Career & Affiliate Services Officer - she also identifies as a FLI student! In addition to helping students with career-related services, Linda also organizes professional and academic events for our department. Please reach out to Linda at lindae@stanford.edu if you have questions or would like to register for the events in the next column.

Upcoming Events

Please check out the [MS&E Events Page](#) for our current events offerings. As SERGE participants, you are welcome to join us for these events so please sign up!

Some of our recent and upcoming events include:

Finance Primer Workshop Series with Luke Pappas

1. Financial modeling:
 - a. Session 1: Cap table and financial statements – Tue (10/05)
 - b. Session 2: Valuation methodologies – Tue (10/12)

Applying a Strategic Thinking Mindset to Your Career

MS&E Black Alumni Panel

Summer Internship Panel with MS&E Students
Mon (11/01), 5:30-6:30 pm

A Career In Entrepreneurship: From Operator To Venture Capitalist
Thur (11/04), 12:30-1:20 pm