

Materials Science and Engineering Learning Center (MSELC)

Michigan Technological University

Coach Application

Applications should be sent by email to mselec@mtu.edu or dropped off at M&M U204

Selected candidates will be contacted and asked to schedule an interview.

1. Background Information	
Name:	Phone:
Email:	
Local Address:	
Number of semesters you expect to work:	
Interested in: <i>(Check all that apply)</i>	<input type="checkbox"/> Laboratory Assistance
<input type="checkbox"/> Coaching in the Learning Center	<input type="checkbox"/> Grading Homework and Exams

2. Academic Information	
Major:	GPA:
Minor:	<u>Year:</u>
Expected Graduation Date:	

3. Employment History		
Employer	Dates of Employment	Position/Responsibilities

4. Extracurricular Activities at Michigan Tech		
Activity	Position/Responsibility	Hours Per Week

6. Application Questions

Please **type** answers to the following questions in 100 words or less:

1. Why are you interested in this position, and why do you feel that you would be a good coach?

2. What is one improvement or contribution you would make to the MSELC if selected?

3. Describe any previous experience that would qualify you for coaching and working collaboratively with students.

4. (Optional) List any other materials science related experience, skills, or qualifications you would like the Learning Center staff to know about.

7. Schedule

MSELC hours are Sunday-Thursday from 6-8 PM, Tuesday and Thursday from 12-2 PM, and Monday from 3-5 PM. Please mark the times when you are available to coach.

*NOTE: There is a **mandatory** coaching meeting on Mondays from 5-6 PM.*

Time	Sunday	Monday	Tuesday	Wednesday	Thursday
12-2 PM					
3-5 PM					
5-6 PM		MEETING			
6-8 PM					

Please complete the Materials Science Experience Survey on the following pages and attach to your application. Additionally, please attach a copy of your resume. All materials submitted electronically must be in PDF format.

Sign below to indicate your agreement to the following statement:

I hereby attest that, to the best of my knowledge, all of the information provided in this application is accurate and truthful.

Signature

Date

Materials Science Experience Survey

For this survey, please indicate your level of expertise in each subject area, program, tool, or laboratory procedure. Rate based on your ability to coach a student through the concept or use of the program or procedure. This survey is purely for informational purposes; it is not required (or expected) that prospective coaches are masters of everything. Use the following scale:

0 = no experience, 1 = familiar, 2 = proficient,
3 = undergraduate level expert, 4 = graduate level expert, 5 = mastery

A. Core Subjects	
Crystallography:	Mechanical Properties:
Polymers:	Failure:
Defects/Dislocations:	Heat Treatments:
Phase Diagrams:	Electronic Properties:
Thermodynamics:	Transport (diffusion, fluid flow):
X-Ray Diffraction:	Statistics:

B. Programs and Tools		
MATLAB:	CES Database:	MS Excel:
Solidworks or NX:	Pearson's Crystal Data:	ThermoCalc:

Please check next to each undergraduate materials science course you have taken at Michigan Tech. For each checked course, list your instructor, grade, and the term you took the course.

C. Materials Science Courses				
X	Course	Instructor	Grade	Term Taken
	MY2100: Introduction to MSE			
	MY2110: Introduction to MSE II			
	MY3100: Materials Processing I			
	MY3110: Materials Processing II			
	MY3200: Materials Characterization I			
	MY3210: Materials Characterization II			
	MY3300: Design of Microstructure			
	MY3500: Introduction to Semiconductors			
	MY4130: Principles of Metal Casting			
	MY4300: Mechanical Behavior of Materials			
	MY4600: Introduction to Polymer Engineering			
	MY4800: Material and Process Selection			

NOTE: Coaches are required to have passed MY2100 and to have passed or be currently enrolled in MY2110. Graduate students are exempt from this requirement.