

Welcome to Tau Beta Pi The Engineering Honor Society Winter 2024

Fellow classmates and colleagues,

Congratulations on your outstanding academic achievements! Your drive to succeed in scholarship has made you one of the top performers of your class, and earned you an invite to Tau Beta Pi, the Engineering Honor Society!

Tau Beta Pi (TBP) is the oldest engineering honor society in the United States that recognizes and honors engineering students who have demonstrated distinguished scholarship and exemplary character. It is the second oldest collegiate honor society in the country, and the only one that represents the entire engineering profession. Founded in 1885 at Lehigh University by Professor Edward H. Williams Jr, TBP has grown leaps and bounds to 255 active collegiate chapters across the United States and Puerto Rico, and has initiated over 600,000 members so far.

The Michigan Gamma chapter of Tau Beta Pi was founded at the University of Michigan, Ann Arbor in 1906, and has since grown to be the second largest TBP chapter. Michigan Gamma brings together the great minds of the diverse engineering fields in the College of Engineering, and has initiated over 10,000 members to-date, including notable personalities like American astronaut Edward H. White II, and Google co-founder and CEO Larry Page. Michigan Gamma is also one of the most active TBP chapters, organizing over 100 service, social, and professional development events each semester. Some of our notable events include co-hosting the Fall SWE/TBP Career Fair which is one of the largest academic career fairs in the country, and Cub Scouts Day where we help local Cub Scouts earn their Engineering Pin by organizing various engaging modules, such as the famed Egg Drop Project. We also offer free one-on-one tutoring, and organize fun social and inter-society events, all aimed to bring a strong community that fosters academic excellence, professional and personal integrity, and a spirit of liberal culture in the field of engineering.

By participating in Tau Beta Pi, you will have the opportunity to meet fantastic peers from across the field of engineering who, like yourselves, are driven towards achieving academic excellence and enthusiastic to engage with the community. In this first general meeting, you will learn of the various benefits that come from being a member of TBP, including opportunities for community service, networking, professional development, scholar-ship and leadership. You will also learn of the requirements to be completed in order to gain membership into TBP—and though they may seem daunting at first, you can be assured that we are here to help you achieve these goals. Included in this packet is the information you will need in order to elect into TBP. If you have any questions, please do not hesitate to ask!

We hope you will choose to elect into membership for Tau Beta Pi. And remember—membership in Tau Beta Pi is lifelong, so once a member, always a member!

Aditya Vasudevan Graduate Student Vice President Tau Beta Pi, MI-G



Graduate Electee Packet — Winter 2024

Tau Beta Pi MI-G

Make sure your packet has the following items:

- 1. Information Sheet
- 2. Graduate Electee Requirements
- 3. Service Project Descriptions
- 4. Character Evaluation
- 5. Graduate Electee Checklist
- 6. Graduate Electee Advisor Form
- 7. Minors on Campus Policy

If you are missing something, please stop by the office (1226 EECS, also known as the Bullpen) or visit the Electee Resources page on the website (tbp.engin.umich.edu) for a PDF version of this document. Also, feel free to contact the Graduate Student Vice President (tbp.gradvicepresident@umich.edu). **Sign up for interviews** and **create a website profile at** tbp.engin.umich.edu.

Officer Chats — Winter 2024

Please come visit us during our Officer Chats located in the bullpen (1226 EECS). We can answer any questions you have and help you with your electing process. You can see any updates to the Officer Chats schedule at tbpmig.org/oh. The schedule for Officer Chats is as follows:

Executive Team	Tuesday Thursday	4:00 pm – 5:00 pm 1:30 pm – 2:30 pm
Chapter Team	Friday	3:30 pm – 4:30 pm
Events Team	Wednesday	5:00 pm – 6:00 pm

Information Sheet – Winter 2024

Tau Beta Pi MI-G

Officers

Important Dates

Importa	III Daics			Officers		
-				Exec	cutive Committee	
January				President	Kevin Masel	tbp.president
23	First General	6:30 pm	2505 GGBL	Vice President	Karen Jin	tbp.vicepresident
31	Interviews	By Appointment	1120 DUDE*	Grad Student Vice President	Aditya Vasudevan	tbp.gradvicepresident
				Secretary	Namit Padgaonkar	tbp.secretary
February				Treasurer	Alex Li	tbp.treasurer
1, 2	Interviews	By Appointment	1120 DUDE*	External Vice President	Vance Kreider	tbp.externalvicepresident
6	Second General	6:30 pm	2505 GGBL	External Vice President	Ibrahim Musaddequr	tbp.externalvicepresident
13	New Initiatives I	6:30 pm	1017 DOW		Rahman	_
					Events Team	
March				Service Coordinator	Drew Boughton	tbp.service
5	Third General	6:30 pm	2505 GGBL	Campus Outreach Officer	Hunter Muench	tbp.campusoutreach
12	New Initiatives II	6:30 pm	1017 DOW	Activities Officer	Paco Haas	tbp.activities
19	Fourth General	6:30 pm	2505 GGBL	Professional Development Officer	Maggie Robbins	tbp-corporate
				K-12 Outreach Officer	Jacob Miller	tbp.k12outreach
April				K-12 Outreach Officer	Dylan Stone	tbp.k12outreach
2	New Initiatives III	6:30 pm	1017 DOW			
9	Elections	6:30 pm	2505 GGBL	•	Chapter Team	
16**	Fifth General	6:30 pm	2505 GGBL	Chapter Development Officer	Advika Jhingran	tbp.chapterdevelopment
20	Initiation	3:00 pm	1500 EECS	Membership Officer	Mitra Mokhlesi	tbp.membership
20	Banquet	6:00 pm	TBD	Publicity Officer	Grace Yoon	tbp.publicity
23	Alternate Initiation	7:00 pm	Zoom	Historian	Jacob Ziff	tbp.historian

Advisors

tbp-advisors@umich.edu

Deadline to complete all electee requirements	Leland Pierce	EECS	lep	Faculty Advisor
Deductive to complete an elected requirements	Kyle Lady	EECS	kylelady	Chief Advisor
	David Martel	BME	damartel	Alumnus Advisor
	Pritpaul Mahal	EECS	pritpaul	Alumnus Advisor
	Ranadeep Mitra	EECS	ranadeep	Alumnus Advisor
	Michael Benson	EECS	mlbenson	Graduate Student Advisor
	Kate Giammalvo	CEE	kgiamm	Graduate Student Advisor
	Zachary Goldston	EECS	zwgold	Graduate Student Advisor
	Ansh Patel	IOE	anshp	Graduate Student Advisor



* Interviews will take place in the Duderstadt conference rooms 1120B and 1120D

General Information

TBP Office 1226 EECS

Email

tbp.officers@umich.edu

Website

tbp.engin.umich.edu



Graduate Electee Requirements – Winter 2024

Tau Beta Pi MI-G

The following is a detailed list of the requirements involved in the TBP electee process. Later in this packet you will also find a quick checklist that summarizes the important deadlines mentioned here. Please note the dates of the meeting and requirements on your calendar.

Create a Profile on the website by February 2, 2024: In order to successfully elect in to TBP, you must first create a profile on the website (tbp.engin.umich.edu), as it will allow you to sign up for events, receive important notifications, and track your progress throughout the semester. More step-by-step information on navigating the website will be provided to you via email, but briefly, you can use the "Event List" link under the "Calendar" Menu to sign up for events and the "Track my Progress" link under the "Membership" menu to keep an eye on which requirements you have completed.

I. REQUIRED MEETINGS

Attend all the General Meetings (5), Elections (1) and Initiation (1). All meetings (except Initiation) will begin at 6:30 pm (check the INFORMATION SHEET section of this packet for dates and venue). If you are unable to attend one or more of the General Meetings, please inform the Graduate Vice President, look over a copy of the meeting agenda at tbp.engin.umich.edu, and make up for the missed meeting by completing an extra hour of service, social, or professional development. Attendance at Elections cannot be made up by extra hours, so if you cannot make it, please contact the Graduate Vice President. Attendance at Initiation is required by the national organization to become a member of Tau Beta Pi. If you have an unavoidable conflict, please inform the Graduate Vice President ASAP! Though not required, you are welcome (and encouraged) to attend New Initiatives Meetings—these meetings will count towards service hours.

II. TEN SERVICE HOURS

Complete at least TEN* hours of service projects before April 16, 2024. Service events are scheduled via the website (tbp.engin.umich.edu), and signing up is a commitment to go! Hours will only be provided after attendance at the event is confirmed. If you are unable to attend an event you have signed up for, you must drop your sign-up at least 24 hours in advance. We recommend making sure the website accurately displays what you have completed. If not, please contact the website officer (tbp.website@umich.edu).

*At least FIVE of these service hours must be completed before March 26, 2024.

III. THREE SOCIAL EVENTS

Complete at least THREE* social events before April 16, 2024. Social events include Happy Hours, ice cream socials, hikes, and game nights to name a few. At least ONE of these socials MUST be a Grad Social. The Graduate Vice President, Graduate Student Activities Chair(s) and others will be scheduling a number of Grad Socials this semester, possibly including movie nights and lunch/dinner outings. If you have an idea for a Grad event, please contact the Graduate Vice President.

*At least ONE of these social events must be completed before March 26, 2024.

IV. TWO GRADUATE ELECTEE TEAM ACTIVITIES

Attend at least TWO* Graduate Electee Team Activities before April 16, 2024. These activities will aim to serve as a peer mentor group for the electees, providing opportunities to interact with each other and other graduates active in TBP. The Graduate Vice President will be scheduling a number of Grad Electee Team Activities this semester with the Grad Electee Team Lead(s). More information on the schedule of these meetings will be provided later.

V. CHARACTER OUESTIONNAIRE & INTERVIEW

These tasks need to completed by January 29, 2024.

(a) Complete the online electee questionnaire regarding exemplary character.

The electee questionnaire can be found under Electee Resources on the website (tbp.engin.umich.edu).

(b) Upload a copy of your resume.

Your resume needs to be submitted to your website profile.

(c) Sign up for ONE in-person interview on the website.

The in-person interview is designed to be a low pressure interaction with an active member that lasts about 25 minutes and starts no later than 5 minutes after the start time. Interviews will be held between January 31 and February 2, 2024 so please ensure that you sign up for a slot by January 29.

More information on the Electee Questionnaire and Interview can be found in the CHARACTER EVALUATION section of this packet.

VI. FORMS & PAPERWORK

- (a) Submit the following completed forms before January 29, 2024:
 - Graduate Electee Advisor Form (copy included in this packet)
 - ii. Online Graduate Education Form (OGEF)(http://tbp.engin.umich.edu/members/electees/submit_education_form)

If you are a PhD student, but will also be receiving a Master's degree along the way (check with your program's Graduate Coordinator!), please circle "Master's" in the "Graduate Electee Advisor Form" and list both Master's and PhD under the Degrees section of the OGEF.

(b) Complete the Youth Protection Training by February 6, 2024. Please see the "MINORS ON CAMPUS POLICY" section of this packet for more details.

VII. MEMBERSHIP DUES

Pay the membership fee of \$100 to the Treasurer (Alex Li) before April 16, 2024.

This is a one-time fee to be a member of Tau Beta Pi that pays for electee supplies, the banquet, your bent, certificates, your lifelong membership, etc. You can turn it in at a meeting or to Alex Li during office hours via cheques (made out to Tau Beta Pi), cash, or virtual wallets. Payment is preferred via Venmo or PayPal. Additional information will be provided by the Treasurer later. If the fee poses a significant financial burden, please reach out to the Graduate Vice President for more information.

Remember, this is only what you *have* to do — there are no limits on what you can do! In the end, TBP is what you make of it — the more your give, the more you get out of it!



Service Project Descriptions - Winter 2024

Tau Beta Pi MI-G

The following projects and descriptions are examples of some of the service projects that our chapter has carried out in the past. The complete list of service projects that will be done this semester is uncertain due to the constantly evolving opportunities our members discover. However, this list should give you a good sense of the different types of service projects that we undertake. If you see an event that you would like to participate in that has not been scheduled, you may also take the lead on it yourself. This semester is a great time to have creative ideas and take advantage of TBP resources for service events. Also, if we have a large amount of electees and general motivation to do larger scale community service, we have a community outreach plan set up that consistes of a lot of groundwork/direct interaction with the Michigan/Ann Arbor community. If you are interested in any of this please contact Drew Boughton (tbp.service@umich.edu); it is never too early to start getting involved in leadership. Note that the list below is only a taste of the service projects we have carried out.

Ann Arbor Natural Area Preservation Stewardship Workdays: Ann Arbor Natural Area Preservation (NAP) is a section of the Ann Arbor Government that specializes in the preservation of public parks and nature reserves. NAP hosts weekend Stewardship Workdays that welcome groups of volunteers to help remove invasive plant species to preserve biodiversity. These events will become more frequent as the weather improves.

Campus Outreach Events: TBP organizes various tutoring opportunities for students within and outside the University of Michigan, hosts Breakfast Parties and Hot Chocolate Outreach Programs. Please check the website for more information.

Cub Scouts Day: Cub Scouts Engineering Day is a TBP-organized event for local Cub Scouts troops to receive their engineering badges. Activities include bridge building, egg drop, circuits, and floor plan. Volunteers are needed to help run these stations and to lead groups of Cub Scouts through the stations

Hands-On Museum: The Ann Arbor Hands-On Museum aims to inspire people to discover the wonder of science, math and technology. Have fun with kids while learning cool science facts! Past events include helping children make their own microbes, exploring unique musical instruments, and celebrating DNA day.

Knitwits: Knitwits helps the less fortunate during the cold winters by creating warm clothes from donated material. We tie together scraps of fleece to make blankets for the homeless here in Ann Arbor. No experience is necessary; instructions and materials all provided!

Merit Badge Day: At Merit Badge Day, Scouts will explore the world of engineering and earn their Digital Technology, Programming, Electronics and Engineering Merit Badges. Scouts will learn about programming and engineering in a fun environment through multiple activities, including developing programs on an Arduino and designing simple websites, as well as learning about important topics in engineering. Scouts will learn from engineering students across several disciplines, and learn more about what it means to be an engineer.

MindSET: MindSET is a STEM education initiative started by TBP, aimed at engaging K-12 students in science and mathematics through hands-on, design-based learning activities, and mentoring from current engineering students. The program is designed around learn-design-build-test modules covering topics in physics, chemistry, and mathematics, along with their engineering applications such as bridges, circuits, and water rockets. The design-build activities involve groups of 4–5 school students working together. MindSET modules are organized on Saturday mornings from 9:00 am to 12:00 pm. Each module is unique in a given semester, but may repeat across semesters.

For more information, see https://tbp.engin.umich.edu/outreach/mindset/

University of Michigan Science Olympiad: University of Michigan Science Olympiad (UMSO) provides an excellent opportunity for both middle school and high school science to help grade and supervise events.

Zooniverse: Zooniverse is a completely virtual service opportunity that sees volunteers classifying elements for large-scale data sets. Topics include cosmology, biology, and history to name a few.

Character Evaluation — Winter 2024



Tau Beta Pi MI-G

Exemplary character is one of the requisites for membership in Tau Beta Pi. In addition to being active members of the engineering community, Tau Beta Pi members must meet the **highest standards of moral character**. Our chapter will assess your character through written essays and an interview.

Electee Interview Questionnaire:

The first component of the character assessment in Tau Beta Pi is the Electee Interview Questionnaire. You will be required to complete a questionnaire with a couple fun questions, a few short answer questions, and one essay question. Please note that this questionnaire (and a copy of your resume) are due by **January 29** by submitting them through the website. The questionnaire can be found under Members \rightarrow Electee Resources while your resume should be submitted to your website profile. Submit your **essay and resume** by **January 29**.

Some of the short answer will provide you with the opportunity to share a part of your personality with us. Others will ask for your opinion on topics related to academic integrity. While not a direct question on character, these question will allow us to better understand you, your thinking, and grasp your personal character.

As an organization that stresses the importance of exemplary character in our electees and our active members, the essay is a **crucial** part of character assessment. This (one page) essay is an open-ended assignment, and we encourage you to get creative with your submission. Nevertheless, exemplary character is not an arbitrary concept, and we are looking for specific evidence that you know what this important quality means. Tau Beta Pi members should meet the highest standard of moral character. The quotes on the following page may help inspire you on the subject of exemplary character, but do not limit yourself to those ideas.

The questionnaire can be found and completed under **Members** \rightarrow **Electee Resources at tbp.engin.umich.edu**. Be ready to discuss your answers during your interview.

Interviews:

The interview is the most important part of character assessment. Interviews will be held on January 31, February 1, and February 2 in the Duderstadt, rooms 1120B and 1120D. You must sign up for one interview slot. Each interview should last about 25 minutes and will start no later than 5 minutes after the scheduled start time (to allow for travel from classes). Dress is business casual — you do not need to wear a suit, but should dress professionally. While the interview is intended to be low-pressure, electees can be denied membership on the basis of a negative interview, so take the process seriously. Interviewers will review the resume and the answers to the Electee Interview Questionnaire you submitted by January 29. Sign up for a graduate electee interview on the website (tbp.engin.umich.edu).

Interview Dates: January 31, February 1, February 2: 5:00 pm – 9:00 pm

Location: Duderstadt Center Rooms 1120B and 1120D

Requirements: Dress is business casual

Sign up for a graduate electee interview under "Events" at tbp.engin.umich.edu.

Submit your questionnaire answers under Members \rightarrow Electee Resources at tbp.engin.umich.edu

and your resume to your website profile by January 29.

If you have any questions or scheduling issues, please contact the Grad Vice President (tbp.gradvicepresident@umich.edu).

Quotes about Character

"Character, not circumstance, makes the person."

- Booker T. Washington, American educator and civil rights activist (1856–1915)

"Character is like a tree and reputation like its shadow. The shadow is what we think of it; the tree is the real thing."

- Abraham Lincoln, 16th U.S. president (1809–1865)

"It is with trifles, and when he is off guard, that a man best reveals his character."

- Arthur Schopenhauer, German philosopher (1788–1860)

"Weakness of attitude becomes weakness of character."

- Albert Einstein, Swiss-American mathematician and physicist (1879–1955)

"Character cannot be developed in ease and quiet. Only through experience of trial and suffering can the soul be strengthened, vision cleared, ambition inspired, and success achieved."

- Helen Keller, American author, activist and lecturer (1880–1968)

"When the character of a man is not clear to you, look at his friends."

- Japanese Proverb

"The right way is not always the popular and easy way. Standing for right when it is unpopular is a true test of moral character."

- Margaret Chase Smith, American Senator (1897–1995)

"The best index to a person's character is (a) how he treats people who can't do him any good, and (b) how he treats people who can't fight back."

– Abigail Van Buren, American columnist (1918–2013)



Graduate Electee Checklist — Winter 2024

Use this quick checklist to stay organized with all the requirements and deadlines for the TBP electing process!

Done	Due Date	Requirement
	Jan 23	First General Meeting**
	Jan 29	Create profile on website
	Jan 29	Online Electee Questionnaire
	Jan 29	Sign-up for interview (Jan 31, Feb 1, Feb 2)
	Jan 29	Submit Advisor and OGEF forms
	Jan 31/Feb 1/Feb 2	Complete Interview
	Feb 6	Second General Meeting**
	Feb 6	UofM Background Check
	Feb 20	One grad electee team meeting
	Feb 20	3 service hours total (recommended)
	Mar 5	Third General Meeting**
	Mar 19	Fourth General Meeting**
	Mar 26	≥ 5 service total hours (required)
	Mar 26	≥ 1 social event total (required)
	Apr 9	Elections**
	Apr 16	Fifth General Meeting**
	Apr 16	Complete ≥ 10 service hours total
	Apr 16	Complete ≥ 3 social hours total (≥ 1 grad social)
	Apr 16	Attend ≥ 2 grad electee team meetings
	Apr 16	Pay \$100 dues to the Treasurer
	Apr 20	Initiation** and Banquet

 $^{**} indicates REQUIRED \ MEETING. If you cannot attend a meeting, please inform the Graduate \ Vice \ President \ (tbp.gradvicepresident@umich.edu).$



То:	Aditya Vasudevan Graduate Student Vice Presiden Tau Beta Pi – Michigan Gamma 1226 EECS	t	
From:	(Advisor's Name)		_
Re:	Tau Beta Pi Candidacy of		
	(Applicant's Name)		_
I certify that the above induction (April 20) at l	east 50% of their		(please sizele one)
	Master's cluding both coursework and res Pi — The Engineering Honor Soc	-	(please circle one) ent's academic performance, I recommend their
(Advisor's S	ignature)		

 $Return\ this\ form\ to\ Aditya\ Vasudevan, MI-G\ Graduate\ Student\ Vice\ President,\ at\ 1226\ EECS,\ or\ via\ email\ (tbp.gradvicepresident@umich.edu)$ before\ January\ 29,\ 2024.



Minors on Campus Policy – Winter 2024

Tau Beta Pi MI-G

The University of Michigan, Ann Arbor Public Schools, and the Boy Scouts of America require anyone volunteering with children to complete background checks. This means that in order for anyone to volunteer and interact in any way with youth at TBP Events, they must complete a background check form. Before you can complete the background check, you need to opt-in to the process by filling out the background check opt-in form (https://tbpmig.org/YPT). Please do so as soon as you can. After you do so, the K-12 officers will submit yout name to receive a background check, and in the days after, you will receive an email from a third-party system to complete a background check form (do remember to check your spam). You must submit a screenshot of the end of the survey to K-12 officers (tbp.k12outreach@umich.edu) by February 6, 2024 in order to volunteer with youth at MindSET, Cub Scout Day, Merit Badge Day or Major Fairs. You will not receive any confirmation email about a successful background check, emails are sent only when something is flagged. If you are unable or unwilling to complete the form and submit to the background check, participation at K-12 events will be limited to roles that ensure non-interaction with youth.

The University of Michigan requires that all individuals volunteering with minors also complete training. To fulfill this training requirement, Tau Beta Pi is requiring members to complete Youth Protection Training (YPT), offered through the Boy Scouts of America. This training can be completed online, taking around an hour to complete at **scouting.org/training/youth-protection**. You will need to create an account before proceeding to take the training online, and after completing it, you must save your certificate as a PDF document and send it to the K-12 officers (tbp.k12outreach@umich.edu).

Submission of your YPT certificate, proving that you have completed the online training, should be completed by February 6, 2024. Upload the YPT certificate using the following link https://tbpmig.org/YPT

If you have any questions about the background check or training, or if you do not wish to complete the background check, please contact the K-12 officers (tbp.k12outreach@umich.edu).

To summarize, please have the following done by February 6, 2024*:

- I. University of Michigan background check. **Take a screenshot** of the final page of the survey and send to tbp.k12outreach@umich.edu (you will not receive a confirmation email)
- II. Boys Scouts of America Youth Protection Training (YPT) at scouting.org/training/youth-protection and upload a certificate to https://tbpmig.org/YPT

*If you miss this deadline but still wish to participate in these events, you may contact the TBP Service Coordinator (tbp.service@umich.edu) to check if there is enough time to complete the background check prior to the event.

K-12 Event Dates are:

MindSET: February 11, February 18, April 7

Science Olympiad: February 17 Engineering Day: March 9 Cub Scouts Day: March 17

Merit Badge Days: March 31, April 13