



WELCOME TO TAU BETA PI THE ENGINEERING HONOR SOCIETY Winter 2022 Edition

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 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 is the only one that represents the entire engineering profession. Founded in 1885 at Lehigh University by Professor Edward H. Williams Jr., Tau Beta Pi has grown leaps and bounds to 247 collegiate chapters across the United States and Puerto Rico, and has initiated nearly 600,000 members to-date.

The Michigan Gamma chapter of Tau Beta Pi (TBP) 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 a 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 build 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, scholarship, and leadership. You will also learn of the requirements to be completed in order to gain membership into Tau Beta Pi - 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 don't 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!

Hrishikesh Danawe
Graduate Vice President
Tau Beta Pi, MI-G



GRADUATE ELECTEE PACKET CHECKLIST Winter 2022 Edition

Make sure your packet has all of the following items:

1. Information Sheet: Calendar of Events and Officer Information
2. Graduate Electee Requirements
3. Service Project Descriptions
4. Character Evaluation: Information on Exemplary Character Survey and Interview
5. Graduate Electee Checklist
6. Minors on Campus Policy
7. Graduate Electee Advisor Form

If you are missing something, stop by the office (1226 EECS) or visit the website (tbp.engin.umich.edu).

Office Hours - Winter 2022

Office hours schedule will be posted on the website soon. Please come visit us at our office hours located in the bullpen (1226 EECS). We can answer any questions and help you with your electee process.

INFORMATION SHEET - Winter 2022

Tau Beta Pi MI-G

Important Dates

Month	Date	Event	Time	Location
January	18	First General	6:30 pm	1013 DOW
	25	New Initiatives I	6:30 pm	1013 DOW
	26-28	Interviews	By Appointment	Zoom
February	1	Second General	6:30 pm	1013 DOW
	8	New Initiatives II	6:30 pm	1013 DOW
	22	Third General	6:30 pm	1013 DOW
March	8	New Initiatives III	6:30 pm	1013 DOW
	22	Fourth General	6:30 pm	1013 DOW
	29	Elections	6:30 pm	1013 DOW
April	5**	Fifth General	6:30 pm	1013 DOW
	16	Initiation	4:00 pm	1500 EECS
	16	Banquet	6:00 pm	TBD
	23	Alternate Initiation	4:00 pm	Zoom

** Deadline to complete all electee requirements

Officers

President
 Vice President
 Grad Student Vice President
 Secretary
 Treasurer
 External Vice President
 External Vice President

Executive Committee

Ranadeep Mitra tbp.president
 Erik Radakovich tbp.vicepresident
 Hrishikesh Danawe tbp.gradvicepresident
 Zachary Goldston tbp.secretary
 Richard Wang tbp.treasurer
 Riley Garliauskas tbp.externalvicepresident
 Jonhan Chen tbp.externalvicepresident

Chapter Development
 Historian
 Publicity Officer
 Membership Officer

Chapter Team

Anh Tuan Tran tbp.chapterdevelopment
 Arjun Sundararajan tbp.historian
 Matthew Kukucka tbp.publicity
 Denise Shlautman tbp.membership

Service Coordinator
 K-12 Outreach Officer
 K-12 Outreach Officer
 Campus Outreach Officer
 Professional Development
 Activities Officer

Events Team

Jed Pienkny tbp.service
 Jessy Simmer tbp.k12outreach
 Jamie Ferries tbp.k12outreach
 Ben King tbp.campusoutreach
 Daniel Falvo tbp.corporate
 Sean Anderson tbp.activities

Advisors

tbp-advisors@umich.edu

Kyle Lady	EECS	kylelady	Chief Advisor
Leeland Pierce	EECS	lep	Faculty Advisor
David Martel	BME	damartel	Alumnus Advisor
Adam Ley	BME	adamwley	Alumnus Advisor
Simon Li	CS	simonli	Alumnus Advisor
Paul Kominsky	AERO	paulko	Alumnus Advisor
Michael Benson	EECS	mlbenson	Graduate Student Advisor
Kritika Iyer	BME	kritiyer	Graduate Student Advisor
Ike Smith	ME	ikesmith	Graduate Student Advisor
Kate Giammalvo	ME	kgiamm	Undergrad Student Advisor

General Information

TBP Office

1226 EECS
 (734) 615-4187

Email

tbp.officers@umich.edu

Website

tbp.engin.umich.edu





GRADUATE ELECTEE REQUIREMENTS – Winter 2022

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 meetings and requirements on your calendar.

Create a Profile by Jan 22, 2022: In order to being electing, you must first create an profile on the TBP Michigan Gamma 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. Step-by-step information on navigating the website will be provided during the First Grad Electee Team Meeting (see item IV), 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 & Banquet (1). All meetings (except Initiation & Banquet) will begin at 6:30pm (check 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's agenda at tbp.engin.umich.edu, and make up for the missed meeting by completing one 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 Initiative Meetings - these meetings can count towards service hours.

II. TEN SERVICE HOURS

Complete at least TEN* hours of service projects before April 5, 2022 . 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 un-sign up at least 24 hours in advance. We recommend making sure the website (under the "Track my Progress" tab) accurately displays what you have completed. If not, please contact the website chair (tbp.website@umich.edu).

***At least FIVE of these service hours must be completed before March 15, 2022**

III. THREE SOCIAL EVENTS

Complete at least THREE* social events before April 5, 2022 . Socials include Happy Hours, ice cream/game nights, sports, Rock 'n' Bowls, Engineering Futures, and many more. **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, lunch/dinner outings, and many more. 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 15, 2022**

IV. TWO GRAD ELECTEE TEAM ACTIVITIES

Attend at least TWO* Graduate Electee Team Activities before April 5, 2022 . 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 Student Vice President will be scheduling five Grad Electee Team Activities this semester. More information on the schedule of these meetings will be provided later.

***The first Grad Electee Team Meeting, scheduled for January 21th 2022 (Friday), 7:30PM is REQUIRED for all graduate electees, and will cover the basics of navigating the TBP website.**

V. CHARACTER QUESTIONNAIRE & INTERVIEW

(i) Complete the online electee questionnaire regarding exemplary character, (ii) upload a copy of their résumé, & (iii) sign up for ONE in-person interview on the website before January 24, 2022. The electee questionnaire can be found under Electee Resources on the website (tbp.engin.umich.edu). Your resume should be submitted to your website profile. The in-person interview is designed to be a low-pressure interaction with the electee that last about 45 minutes and starts no later than 5 minutes after start time, requiring a total commitment of 30 minutes. **Interviews will be held on January 26-January 28, 2022.** Detailed information on the Electee Questionnaire and Interview can be found in the CHARACTER EVALUATION section of this packet.

VI. FORMS & PAPERWORK

i. Submit the following completed forms before February 1, 2022 :

(a) Graduate Electee Advisor Form* (copy included in packet)

(b) Online Graduate Education Form (OGEF)*

(http://tbp.engin.umich.edu/members/electees/submit_education_form)

*If you are a PhD student but will be receiving a Masters degree along the way (check with your program's Graduate Coordinator!), please circle "Masters" in Form (a), & in Form (b) list both Masters and PhD under the "Degrees" section.

ii. Complete the Youth Protection Training by February 1, 2022. Please see the "MINORS ON CAMPUS POLICY" section of this packet for more details.

iii. Complete the Catalog Card online before March 22, 2022. More details will be provided by the Secretary (Zachary Goldston) later.

VII. MEMBERSHIP DUES

Pay the membership fee of \$100 to the Treasurer (Richard Wang) before April 5, 2022.

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 lifetime membership, etc. You can turn it in at a meeting or to Richard Wang at his office hours. Checks should be made out to "Tau Beta Pi Michigan Gamma". You may also pay in cash by placing it in an ENVELOPE with your NAME on it.

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 you give, the more you get out of it!



SERVICE PROJECT DESCRIPTIONS - Winter 2022

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. Because the actual list of service projects that will be done this semester will likely change over the course of the semester, we cannot provide you with a definitive calendar of service projects. However, this list should give you a good sense of the different types of service projects that we undertake. If you see an event you'd like to participate in that hasn't been scheduled, you may also take the lead on it yourself. If you are interested please contact Service Coordinator Jed Pienkny (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. To view a more complete list follow this link: <https://tinyurl.com/d4uxncds>.

Adopt-A-Highway: MDOT created Adopt-A-Highway in 1990 to improve the beauty of our highway roadsides with community help. With the help of 6-12 TBP members, we clean a stretch of Fuller Road near North Campus.

Arb Restoration: If you like the outdoors, this project is for you! We help to keep the Nichols Arboretum the beautiful place it is by clearing out dead trees, picking up litter, and performing assorted groundskeeping tasks. Previous projects have included maintenance and re-routing of the stream that runs through it, planting, and various other types of light outdoor work.

Book Swap: TBP organizes this COE-wide event to help students buy and sell used books. First, students can bring in their used books and set their asking price. Next, other students stop by to peruse our selection and purchase used books. Project leaders should ideally be in Ann Arbor a week or two before school starts to set this up.

Botanical Gardens: The University of Michigan has its very own Matthaei Botanical Gardens that houses exotic plants from around the world. Volunteer opportunities range from planting/maintaining the gardens to administrative work.

Cancer Center: The U-M Comprehensive Cancer Center provides its patients diagnostic, treatment, and support services in a collaborative environment. Past projects include putting together patient information packets for clinics and preparing Valentine bags of homemade cards and candy for patients.

Cub Scout Day: Cub Scout Day is an activity hosted by TBP that allows local Cub Scouts to come to campus and earn their Engineering Pin. Activities include an electronics module, a bridge module, a catapult module, and the most exciting part: designing a landing craft for an egg drop! Volunteering activities may include helping the Scouts during the modules, leading a module, set up and clean up, and more.

Detroit Partnership Pen Pals: TBP pairs with the Detroit Partnership and the Society of Physics Students to provide pen pal mentors for 80 second through eighth grade students at Michigan Technical Academy in Detroit. The project entails writing one detailed letter each month and attending a brief orientation to make a meaningful impact on the life of a Detroit student. Young people need mentors, and even though you might sometimes be nerdy and awkward, you also might be exactly the sort of person who can inspire them.

Diag Clean-up: Work with fellow TBP members to help clean the North or Central campus Diag and its surrounding areas.

Food Gatherers Soup Kitchen: Food Gatherers help prepare a warm meal, serve it, and clean up afterwards at the Delonis Center in Ann Arbor, which temporarily houses approximately 90 homeless people and serves regular meals to the community that have trouble making ends meet. This project directly benefits certain members of the Ann Arbor community that need food. As this is a popular project, project leaders should aim to set up four events a semester (monthly).

Food Gatherers Warehouse: Food Gatherers collects surplus food from businesses around the community to alleviate hunger. Volunteers are needed to help out at Food Gatherers' warehouse with activities including cleaning the warehouse and sorting and packaging food.

Habitat for Humanity: Habitat for Humanity seeks to eliminate poverty housing and homelessness and has built more than 300,000 houses around the world. This is a great hands-on activity where we help build a local house for a family in need. NO experience is necessary. Experienced builders will help you and tell you exactly what to do.

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.

Leslie Science Center: The Leslie Science and Nature Center, situated on 50 acres of fields, woods and prairie in the heart of Ann Arbor, focuses on the public education of science and conservation. It has nature trails, a Critter House, and a solar-powered Nature House. Help them prepare for one of their biggest activities - Animal Haunts! Volunteers are needed for clearing trails, creating a maze in the prairie, carving pumpkins, etc.

Recycle Ann Arbor: Recycle Ann Arbor's ReUse takes donations of reusable material such as furniture, housewares, and lumber, and then resells them to the public or donates to other non-profit organizations. Volunteers are needed to maintain the center; tasks include sorting materials, making displays, cleaning, and some outdoor work.

Sequoia Place: TBP has paired up with HKN go to a local retirement home (Sequoia Place) on alternating weeks to help the residents with technical support for 2 hours (Word, GMail, stereos, etc).

U of M Environmental Health Department: This department is dedicated to managing the local environment at U of M. This project typically consists of clearing invasive plant species from the North Campus woods.

Washtenaw Science Fair: The 53rd Annual Southeast Michigan Science Fair is sponsored by the University of Michigan and Washtenaw Community College in cooperation with public and private schools in the five county regions. Projects are submitted by students from grades 6 through 12. Volunteers will judge a set number of science fair projects. Dinner is provided! Transportation will be arranged for those who need it.



CHARACTER EVALUATION - Winter 2022

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, four short answer questions, and one essay question. Please note that this questionnaire (and a copy of your résumé) are due by **11:59 pm January 24, 2022** by submitting them through the website. The questionnaire can be found under Members → Electee Resources while your résumé should be submitted to your website profile. Submit your **essay and résumé** by **11:59 pm January 24, 2022**.

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 a rather open-ended assignment, and we encourage you to get creative with your description. 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 don't limit yourself to those ideas.

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

Interviews:

The interview is the most important part of character assessment. Interviews will be held **January 26-January 28, 2022** via Zoom. Each interview should last about 25 minutes and starts no later than 5 minutes after the scheduled start time (to allow for travel from classes). Dress code is business casual (i.e. you don't need to wear a suit, but 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 résumé and the answers to the Electee Interview Questionnaire you submitted by **January 24, 2022**. Sign up for a graduate electee interview on the website (tbp.engin.umich.edu).

Interview Dates: **January 26-January 28, 2022**

Location: **Zoom Meeting**

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 → Electee Resources at tbp.engin.umich.edu** and your résumé to your website profile by **January 24, 2022**.

The interview information will be re-addressed before Second General. However, if you have any questions or scheduling issues, please contact the Graduate 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 2022

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

Done?	Date Due	Requirements
_____	Jan 18, Tuesday	First General Meeting**
_____	Jan 21, Friday	First grad electee team meeting** Create profile on website
_____	Jan 24, Monday	Online Electee Questionnaire Sign-up for interview (26-28 Jan)
_____	Feb 1, Tuesday	Second General Meeting** Complete interview Submit Advisor and OGEF forms U of M Background Check Youth Protection Training
_____	Feb 15, Tuesday	Second Actives [DON'T ATTEND!] One grad electee team meeting 3 service hours total (recommended)
_____	Feb 22, Tuesday	Third General Meeting**
_____	Mar 15, Tuesday	Third Actives [DON'T ATTEND!] 5 service hours total (required) 1 social event total (required)
_____	Mar 22, Tuesday	Fourth General Meeting** Complete catalog card
_____	Mar 29, Tuesday	Elections**
_____	Apr 5, Tuesday	Fifth General Meeting** Complete 10 service hours total Complete 3 social hours total (one grad social) Attend 2 grad electee team meetings total Pay \$100 dues to Treasurer
_____	Apr 16, Saturday	Initiation** and Banquet

**indicates REQUIRED MEETING. If you cannot attend a meeting, please inform the Graduate Vice President.



MINORS ON CAMPUS POLICY - Winter 2022

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://tbpmi.ga/opt-in>).** Please do so as soon as you can. After you do so, the K-12 officers will submit your name to receive a background check, and in the days after, you will receive an email from a third-party system (GIS) to complete a background check form (check your spam). **You must submit a screenshot of the end of the survey to K-12 officers (tbp.k12outreach@umich.edu) by February 1, 2022 in order to volunteer with youth at MindSET, Cub Scout Day, Merit Badge Day or Major Fairs. You will not receive a confirmation email unless 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 will be offered in-person at the end of the Second General meeting (register on the website), and can also be completed online. It takes around an hour to complete and can be found at scouting.org/training/youth-protection. You will need to create an account before proceeding to take the training online, and after completing online training, 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 1, 2022 . Upload the YPT certificate using the following link <https://tbpmi.ga/YPT-confirm>

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 by **February 1, 2022** *:

- __ 1. 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).
- __ 2. Boys Scouts of America Youth Protection Training (YPT) at scouting.org/training/youth-protection and upload a certificate to <https://tbpmi.ga/YPT-confirm>.

*If you miss this deadline but wish to participate in events involving youth, 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: March 19, March 26

Cub Scouts Day: April 10

Merit Badge Day: April 02

Major Fairs: TBD (Late March-Early April)

STEM Videos: Ongoing!



To: Hrishikesh Danawe
Graduate Student Vice President
Tau Beta Pi – Michigan Gamma
1226 EECS

From: _____
(Advisor's Name)

Re: Tau Beta Pi Candidacy of

(Applicant's Name)

I certify that the above named graduate student in Engineering at the University of Michigan has completed or will complete prior to induction (April 16, 2022) at least 50% of his/her

Master's Ph.D. (please circle one)

degree requirements including both coursework and research. Based upon the student's academic performance, I recommend his/her induction into Tau Beta Pi – The Engineering Honor Society.

(Advisor's Signature)

Return this form to Hrishikesh Danawe , MI-G Graduate Student Vice President, by email (tbp.vicepresident@umich.edu) before February 1, 2022 .