

ENGINEERING LEADERSHIP ACADEMIES

Marquette University
Opus College of Engineering
Milwaukee, Wis.



The Opus College of Engineering invites rising high school juniors and seniors to join us this summer for our pre-college residential programs! By participating in these programs, students will be immersed into the daily life of a Marquette Engineer while highlighting a wide variety of engineering disciplines and leadership opportunities offered at Marquette. Program highlights include:

- **Working** directly with Marquette faculty, students and STEM industry leaders
- **Learning** through cutting-edge laboratory experiences, hands-on demonstrations and challenges to hone critical thinking and problem solving skills
- **Experiencing** student life at Marquette by living and dining in an on-campus residence hall
- **Exploring** downtown Milwaukee through field trips and excursions



Hands on Engineering Experiences for Leaders of STEM Academy (HEELS)

Monday, June 18 through Friday, June 22, 2018

Women-only; program will place additional emphasis on the importance of fostering women leaders in engineering

Engineering Leadership Academy (ELA)

Monday, June 25 through Friday, June 29, 2018

Co-ed

Cost: \$850

Thanks to the generosity of the Johnson Controls Foundation and others donors, limited scholarships are available. See application for details.

Application Checklist:

- Applicant Information Document
- Student Statement of Interest
- Teacher Recommendation
- Scholarship Application
*optional

All application materials are due (or postmarked) by Friday, April 13, 2018 at 11:59 p.m. CST. Please submit all completed application materials together via email **or** post mail:

engineering@marquette.edu
Opus College of Engineering
Engineering Hall, 146
P.O. Box 1881
Milwaukee, WI 53201

Applicants will be notified of their status in April. If accepted, a deposit is due by Friday, May 4, 2018.

APPLICANT INFORMATION DOCUMENT**Select preferred program:**

- HEELS (women-only, June 18 – 22) ELA (co-ed, June 25-29)
 No Preference (for female participants)

Applicant Personal Information:

Applicant Last Name: _____ First Name: _____ M.I. _____

Preferred First Name: _____

Gender: Female Male Non-binary Other/Prefer to self-describe _____

Date of Birth (MM-DD-YYYY): _____

Grade level (as of Fall 2018): 11th – Junior 12th – Senior

High School Name: _____ City State: _____

Expected Graduation Month & Year (MM-YYYY) _____

Home Address: _____

City, State: _____ Zip Code: _____

Parents/Guardian(s): _____

Primary Phone: _____ Additional Phone(s): _____

Student email: _____

Parent email: _____

Note: Primary communications with parents and participants will occur via email. Please provide an email address that is checked on a regular basis.

Student & Parent Agreement:

STUDENT – I agree to abide by the rules and regulations of Marquette University and the Engineering Leadership Academies if I am selected to participate. I understand that failure to abide by the University's rules and regulations may result in my immediate and final dismissal from the program. At times, the media, instructors or associates of Marquette University may choose to report on course activities. As a part of these reports, I give Opus College of Engineering at Marquette University the right to use my photograph and/or interviews from the program for promotional purposes.

Student Signature: _____ **Date:** _____

PARENT/GUARDIAN – I agree to allow my child to participate in the Engineering Leadership Academies at Marquette University. I assume responsibility for the actions of my child. I will talk to my child about the importance of abiding by the rules and regulations of Marquette University. At times, the media, instructors or associates of Marquette University may choose to report on course activities. As a part of these reports, I allow my child to be interviewed and/or photographed during the program.

Parent/Guardian Signature: _____ **Date:** _____

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MARQUETTE UNIVERSITY

OFFICE OF ENROLLMENT MANAGEMENT & OUTREACH
marquette.edu/engineering/k-12outreach
engineering@marquette.edu
414.288.6720

Academic History Report:

Please provide the program committee with the following information regarding your high school math & science related coursework and academic performance.

Student GPA (unweighted): ____ / 4.0 Student GPA (weighted): ____ / ____

Please fill out the following section to reflect the high school math and science courses you have completed, or plan to complete.

Math Classes	Year in School	Grade Received	Currently Enrolled (Y/N)	Anticipated Enrollment Year
Ex) Algebra 2/Trigonometry	Sophomore	B+		

Science Classes	Year in School	Grade Received	Currently Enrolled (Y/N)	Anticipated Enrollment Year
Ex) AP Biology	Senior			Fall 2018

In a few sentences, please indicate if there is any additional information (coursework, extracurriculars etc.) that is relevant to your academic performance:

Student Statement of Interest:

Tell us a little about yourself! Please provide the program committee with a typed, double-spaced, (1-page maximum) personal statement that highlights your experiences and interest in the fields of science, technology, math and engineering. Please include your full name in the header of the document for review purposes and attach your Statement of Interest to the completed application.

TEACHER RECOMMENDATION

Student Name: _____

Please have one of your high school math or science teachers (past or present) complete the following Teacher Recommendation Form.

Teacher Name: _____ **Academic Subject:** _____
School Name: _____ **City, State:** _____

Please evaluate the student listed above on a scale of 1-5:

(1 –poor, 2 – below average, 3 – average, 4 – good, 5 – excellent, N/A – not applicable or observed)

1) Personal integrity	1	2	3	4	5	N/A
2) Social maturity	1	2	3	4	5	N/A
3) Emotional maturity	1	2	3	4	5	N/A
4) Ability to work with peers	1	2	3	4	5	N/A
5) Ability to work with teachers	1	2	3	4	5	N/A
6) Leadership skills	1	2	3	4	5	N/A
7) Creative problem-solving skills	1	2	3	4	5	N/A
8) Engagement in math	1	2	3	4	5	N/A
9) Engagement in science	1	2	3	4	5	N/A
10) Interest in engineering	1	2	3	4	5	N/A

Please indicate your overall endorsement of this student's participation in a week-long pre-college engineering academy by selecting one of the following options:

_____ Highly Recommend _____ Recommend
 _____ Recommend with reservation _____ Do not recommend

Please expand upon your recommendation above. Responses may be attached as a separate sheet if more space is required:

Signature of Teacher _____ Date: _____

Completed recommendation forms should be sent **by the teacher** to engineering@marquette.edu, no later than Friday April 13, 2018 at 11:59pm CST.



SCHOLARSHIP APPLICATION

This is an optional application for those students who would like to be considered for scholarship to attend one of the Engineering Leadership Academies for Summer 2018.

Due to the generosity of several donors (including the Johnson Controls Foundation), limited scholarships are available for students who have been selected to attend the Engineering Leadership Academy/HEELS. To be considered for a partial or full scholarship, complete the information below and submit this form with the rest of the completed application materials.

Scholarship eligibility and rewards will be disclosed upon acceptance to the program in late April 2018.

Student Name: _____

Name of Program:

- _____ HEELS (Hands-on Engineering Experiences for Leaders of STEM)
(June 18 - 22) –\$850
- _____ Engineering Leadership Academy
(June 25-29) –\$850

Please indicate the amount the student is able to pay toward the cost of program registration:

\$ _____

(OPTIONAL) Additional scholarship funds may be available for individuals from groups currently underrepresented in engineering fields (ex. women, minorities etc.) Are you a member of an underrepresented group? If yes, please explain.

Please indicate the student's estimated annual family income:

- ___ Less than \$29,999
- ___ \$30,000 – 50,000
- ___ \$50,000 – 75,000
- ___ \$75,000 – 100,000
- ___ More than \$100,000

Please attach a brief statement (no more than 1 page) indicating your interest in receiving a scholarship to the Engineering Leadership Academy/HEELS program:



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