ENGINEERING ALLIANCE FOUNDATION
M I N N E S O T A
Elevating Future Engineers

ENGINEERING EQUITY
As a society of engineering professionals, we are passionate about engaging and supporting the next generation of creative innovators. We believe our work to expand and diversify access to engineering fields will drive educational and economic equity, while building stronger communities across Minnesota.

BUILDING COMMUNITY
Engineers design our roads, smartphones, and medical products but few people can describe what they do. Javier Lara, a 2019 EAFM Scholar, knows that engineers build more than things - engineers build communities.

Originally from Honduras, Javier is using his engineering education to see and serve the world. With the support of EAFM scholarship funds, Javier is pursuing chemical engineering at the University of Minnesota Duluth. Javier helped found an engineering community service organization on campus; its members will travel to Nyansakia, Kenya in the winter of 2020 to build a community well. The new well will be an important resource, providing clean, reliable water for the village’s 2,000 residents.

BRIDGING GAPS
From the villages of Kenya to Minnesota’s Iron Range, Javier Lara knows that his EAFM-supported education is preparing him to serve communities while paving the way to a well-paying career. Investing in scholars like Javier is an investment in the future of Minnesota and beyond. But the lack of understanding about what engineers actually do limits how many students give it a try.

Formal education, training requirements, and cost can make engineering education difficult to access. These persistent barriers are compounded for women and communities of color, who are sorely needed to fill engineering roles but vastly underrepresented in engineering fields.

PROGRAMS • SCHOLARSHIPS • MENTORSHIPS

THE ENGINEERING ALLIANCE FOUNDATION OFFERS:

5,000+ Engineering Jobs Available in Minnesota
27% of Students Cite Cost as a Barrier to STEM Education
$100k Median Income for Minnesota Engineers

OUR VISION
The vision of EAFM is to be the leading resource for promoting education in science, technology, engineering and math (STEM). We provide scholarships, sponsorships, and other resources to support the education of students pursuing STEM education and engineering as a career.

5,000+ Engineering Jobs Available in Minnesota

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$100k Median Income for Minnesota Engineers

MN High Tech Assoc., 2/19 Workforce Update
Pew Research Center, http://pewrsrch/st/2Dr2RkJ
**MORE REPRESENTATION, MORE INNOVATION**

Ultimately, students will not be what they do not see. To increase the number of professional women engineers and engineers of color, we must foster more than educational opportunities — we need to cultivate relationships. From seasoned professionals to seventh graders gearing up for MATHCOUNTS competitions, we hear time and again that education + mentorship is the formula for success.

Engineering improves lives, funds futures, and solves shared problems. We ask you to join us in our work to inspire, educate, and support the next generation of engineering professionals.

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**THE STEM SHORTAGE**

```
33% of MN workers have STEM degrees
20,000 more stem workers needed in MN by 2020
70% of workforce gap is due to racial disparities
```

Minnesota High Tech Association, 2016; Center for Economic Inclusion, 2018

“Diverse groups bring a variety of experiences and ideas – driving critical innovation in healthcare, the environment, and beyond.”

- Professor Ronald Bennett PHD, PE, 3M Thwaits Fellow

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**U.S. Engineers**

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11% Black, Hispanic, Native American, or Alaskan Native
14% Women
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**LOST TALENT**

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20% Latinx STEM students leave college without a degree
25% Black STEM students leave college without a degree
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Raven–Wolf; "Early Departures," Inside Higher Ed, 2019

**ROUTES TO STEM**

To realize EAFM’s vision of expanding and diversifying access to the field of professional engineering we offer programming to promote STEM, fund engineering education for students and professionals, and facilitate ongoing career mentorship. Together, our programs span the full middle school–career pipeline.

“**A role model is living proof of possible success.**”

- Aduramo Lasode,
  2018 EAFM Scholarship Recipient

**SCHOLARSHIPS** Application are encouraged from students considering engineering education in established Minnesota programs. We believe our scholarship program is a vital tool for recruiting and retaining the next generation of engineering professionals.

**MENTORSHIP** The Foundation connects early career engineers with seasoned professionals from the Engineering Alliance Minnesota. Mentor relationships are especially vital for our efforts to diversify and expand the engineering workforce. Women and people of color can easily feel isolated in our already challenging field, driving brain drain. According to 2018 EAFM scholarship winner Aduramo Lasode, “A role model is a living proof of possible success.”
PROGRAMS TO ENGAGE YOUNG MINDS:

**MATHCOUNTS** is a math enrichment, coaching, and competition program for middle school students grades 6-8. This national program is calculated to maximize student interest in math by making arithmetic achievement as challenging and celebrated as hockey, baseball or other school sport. Serving over 1200 students from across Minnesota annually since 1983, this program builds mathematical confidence and encourages the pursuit of more advanced STEM coursework.

Engineering in Minnesota creates a lasting impact on the quality of life in our state. The Engineering Alliance, the Engineering Alliance Foundation and MATHCOUNTS are committed to elevating today’s engineers while also developing the diverse STEM workforce of tomorrow.

We’re doing that through:

1. **ADVOCACY** - Preserving the power and prestige of the Professional Engineer license as a standard for qualified practice that protects the public.

2. **EDUCATION** - Providing accessible, relevant and affordable continuing education for engineers.

3. **OUTREACH** - Leading a collaborative effort to provide long-term solutions to STEM workforce challenges.

With your partnership, we can increase the impact of our work across Minnesota. Now, supporting our combined efforts will be easier than ever: with one annual commitment that reaches across all three of these important areas.

We’ve simplified our giving structure, with this new annual sponsorship replacing multiple sponsorships of the past. You’ll be able to budget for your contribution, support all these important programs with one gift, and be better able to see the value of your contribution throughout the year.

Please join us in supporting this important work. Contact Katie Jamieson at kjamieson@engineersfnd.org or 651-457-2347 to confirm your commitment to engineering excellence, educational access, advocacy for our profession, and a thriving Minnesota.

Learn more at [EngineeringAllianceMN.org](http://EngineeringAllianceMN.org), [EngineersFnd.org](http://EngineersFnd.org), and [MATHCOUNTSMN.org](http://MATHCOUNTSMN.org)
JOIN US
Founded in 1962, EAFM has grown from solely awarding scholarships to supporting a middle school-career STEM pipeline. To further our work, EAFM welcomes individual and corporate donations, program volunteers, and planned giving. We ask you to join us—and our network of industry partners—in cultivating the next generation of engineers seeking to build a better, brighter, more inclusive Minnesota.

EA, EAFM & Minnesota MATHCOUNTS Sponsorships Include:

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<thead>
<tr>
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<th>PREMIER ($15,000)</th>
<th>DIAMOND ($10,000)</th>
<th>PLATINUM ($5,000)</th>
<th>GOLD ($2,500)</th>
<th>SILVER ($1,000)</th>
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<tbody>
<tr>
<td>Ethics video on-demand webinar (EXCLUSIVE)</td>
<td>✓</td>
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<tr>
<td>Celebration Gala (A new event bringing together Minnesota’s STEM community)</td>
<td>Premier sponsor $8,000 value</td>
<td>Diamond sponsor $6,000 value</td>
<td>Platinum sponsor $4,000 value</td>
<td>Gold sponsor $2,000 value</td>
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<td>Minnesota State MATHCOUNTS sponsorship</td>
<td>Calculus level $5000+ value</td>
<td>Geometry level $1000-$4999 value</td>
<td>Algebra level $500-$999 value</td>
<td>Arithmetic level $499 value</td>
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<td>STEM Outreach 5K sponsorship (&gt; $200 value)</td>
<td>✓</td>
<td>✓</td>
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<tr>
<td>Social media recognition - Four channels</td>
<td>6 mentions</td>
<td>4 mentions</td>
<td>2 mentions</td>
<td>1 mention</td>
<td></td>
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<tr>
<td>Professional continuing education (PDHs) - Live site and webinar</td>
<td>Non-member and member employees at no PDH cost</td>
<td>Non-member and member employees at no PDH cost</td>
<td>50% PDH discount for non-members (members are free)</td>
<td>25% PDH discount for non-members (members are free)</td>
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<tr>
<td>Website, print and e-newsletter</td>
<td>✓</td>
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<tr>
<td>Continuing education recognition</td>
<td>✓</td>
<td>✓</td>
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<td>Advocacy on behalf of professional engineers, the PE license, the engineering profession, STEM workforce development and more</td>
<td>✓</td>
<td>✓</td>
<td>✓</td>
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1 Includes up to two minutes of partner messaging at the beginning of the recorded webinar. The webinar will be housed in the Engineering Alliance Minnesota On-Demand webinar library for at least two years, including reaching 300+ Minnesota PEs prior to the June 2020 PE license renewal.
2 The new gala celebrates engineering and our shared commitment to the profession’s impact on our state. Sponsorship provides pathways for attendance and supports the keynote speaker and recognition of influential individuals in the STEM community, including scholarship recipients and MATHCOUNTS competition winners. The gala will take place on April 17, 2020.
3 Minnesota MATHCOUNTS reaches over 3,000 families at 150 middle schools and engages more than 250 volunteer engineers across Minnesota each year.
4 Includes sponsorship of the 2020 MATHCOUNTS State Competition t-shirt for students, coaches and volunteers.
5 Websites, printed materials and e-news for EAM, EAFM and MN MATHCOUNTS.