



INFORMATION 2015



ENSURING THE IRON AND STEEL INDUSTRY OF TOMMOROW WILL HAVE A SUFFICIENT NUMBER OF QUALIFIED PROFESSIONALS

Engaging the Steel Industry's Next Generation



A skilled workforce is required for the industry's continued vitality and growth.

The AIST Foundation works to improve the perception of the steel industry by making students, professors, and the general public aware that today's steel industry is technologically advanced, environmentally aware and safety conscious.

Your donation and commitment are vital for the AIST Foundation to meet the needs of tomorrow's steel industry.



Another summer in steel has confirmed my wish to be in this industry. It excites me that there are multiple processes to learn and numerous opportunities to advance and expand my knowledge base. I hope to get experience in each process and eventually end up in a management role. I'm glad my hard work was recognized by an association from the industry that I love!



Nicole J. Sitler
AIST FeMET Scholar
ArcelorMittal Indiana Harbor





What Is the AIST Foundation?

The AIST Foundation is a Pennsylvania-based 501(c)(3) non-profit corporation organized for charitable, education and scientific purposes. The formal mission of the Foundation is to ensure the iron and steel industry of tomorrow will have a sufficient number of qualified individuals.

The Foundation seeks to attract technology-oriented professionals to the steel industry by educating the public about the high-tech, diverse and rewarding nature of careers in modern steelmaking.

The Foundation works closely with the Association for Iron & Steel Technology (AIST), an international technical association of more than 16,500 professional and student members.

What Does the Foundation Do?

Innovative ideas ultimately come from the next generation of students. Accordingly, the Foundation awards scholarships to college students, as well as grants to schools and instructors, including several innovative programs further described herein. As our industry evolves, the AIST Foundation will strive to develop novel methods to support the future of the iron and steel industry.

How Is the Foundation Funded?

All Foundation programs rely entirely on corporate and individual gifts, association support and financial revenue from its endowment. All donations are tax-deductible where permitted by law.

Who Manages the Foundation?

The activities, properties and affairs are managed by a Board of Trustees consisting of 14 members of AIST, appointed by the AIST Board of Directors.



Interning at U. S. Steel Tubular Products gave me an opportunity to observe the manufacturing of steel pipes, along with the chance to ask plenty of questions. It also helped me to gain valuable experience in the steel industry. I hope to become more involved, especially in the research and development of new grades of steel and the improvement of steel manufacturing.



Eurydice Kanimba
AIST StEEL Scholar
U. S. Steel Tubular Products





Scholarship Programs

AIST Foundation Scholarships

AIST Willy Korf Memorial Scholarship

Four US\$3,000 one-year scholarships

AIST Ronald E. Lincoln Memorial Scholarship

Three US\$3,000 one-year scholarships

AIST William E. Schwabe Memorial Scholarship

One US\$3,000 one-year scholarship

AIST Benjamin F. Fairless Scholarship (AIME)

Two US\$3,000 one-year scholarships

AIST Foundation Engineering Scholarship

Up to three US\$3,000 one-year scholarships

AIST Smith Graduate Scholarship (AIME)

Two US\$3,000 one-year scholarships

AIST David H. Samson Canadian Scholarship

One US\$3,000 one-year scholarship

Member Chapter Scholarships

AIST's Member Chapters administer numerous annual scholarships for qualified individuals within their regions.

Baltimore

One US\$1,500 one-year scholarship

Birmingham

One US\$2,000 one-year scholarship

Detroit

Judith A. Quinn Scholarship

One US\$5,000 and one US\$2,500 one-year scholarship

Globe-Trotters

Up to four US\$2,500 one-year scholarships

Mexico

Contact Myrna Molina at info@aistmexico.org.mx.

Midwest

• **Betty McKern Scholarship**

One US\$3,000 one-year scholarship

• **Mel Nickel Scholarship**

One US\$3,000 one-year scholarship

• **Jack Gill Scholarship**

One US\$3,000 one-year scholarship

• **Western States Award**

One US\$3,000 one-year scholarship

• **Non-Engineering Scholarship**

Two US\$1,500 one-year scholarships

• **Tom Cipich Non-Engineering Scholarship**

One US\$1,500 one-year scholarship

• **Engineering Scholarship**

Two US\$1,500 four-year scholarships

• **Don Nelson Midwest Chapter Scholarship**

One US\$3,000 one-year scholarship

• **Material Advantage Scholarship**

One US\$1,000 one-year scholarship

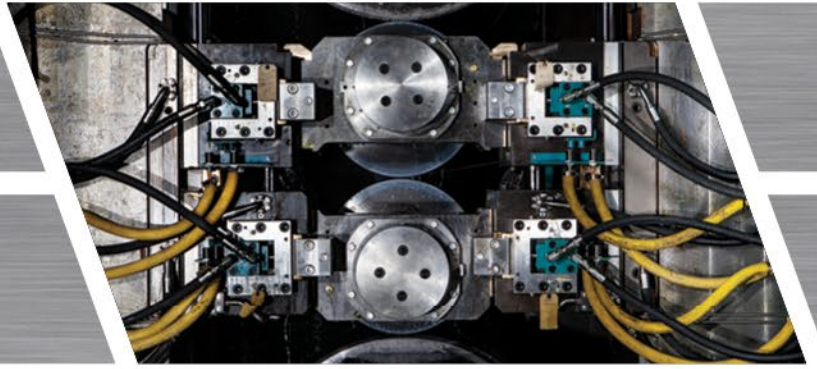
• **Member Chapter Technology Scholarship**

One US\$1,500 one-year scholarship

Northeastern Ohio

• **Alfred B. Glossbrenner Scholarship**

One US\$2,000 four-year scholarship



AIST Scholarship Internship Program

Each scholarship includes a paid internship with a North American steel company. Eligibility rules apply.

Foundation Premier Scholarship

One US\$10,000 one-year scholarship

Awarded to the top-scoring applicant of all FeMET and StEEL applications received.

Ferrous Metallurgy Education Today (FeMET) Scholarship

Up to 10 US\$5,000 one-year scholarships

Applies to metallurgy and materials science and engineering students.

Steel Engineering Education Link (StEEL) Scholarship

Up to 10 US\$5,000 one-year scholarships

Applies to electrical, mechanical, chemical, industrial, computer science and environmental engineering students.

Endowment Scholarships

Endowment scholarships are funded through AIST donations to various universities:

AIST Farrington Memorial Scholarship Fund

Awarded by the Rose-Hulman Institute of Technology.

AIST Madsen Scholarship Fund

Awarded by the Massachusetts Institute of Technology (MIT).

AIST Morrow Scholarship Fund

Awarded by the University of Pennsylvania.

Lewis E. and Elizabeth W. Young Scholarship (AIME)

Applies to undergraduates attending Pennsylvania, Virginia or West Virginia universities.

• John Klusch Scholarship

One US\$2,000 four-year scholarship

• Youngstown State University Scholarship

One US\$1,000 one-year scholarship

• University of Akron Scholarship

One US\$1,000 one-year scholarship

Northern

• Northern Member Chapter Scholarship

One US\$1,000 one-year scholarship

• College Scholarship

One US\$1,000 one-year scholarship

Northwest

Up to two US\$3,000 one-year scholarships

Ohio Valley

Up to two US\$1,000 one-year scholarships

Pittsburgh

• Lawrence G. Maloney Scholarship

One US\$2,500 one-year scholarship

• Pittsburgh Member Chapter Scholarship

Up to two US\$2,500 one-year scholarships

San Francisco

Up to two US\$1,500 one-year scholarships

Southeast

• Gene Suave Scholarship

One US\$3,500 one-year scholarship

Southern California

• Southern California Chapter Engineering Scholarship

One US\$1,500 one-year scholarship

• Southern California Chapter Member Scholarship

One US\$1,500 one-year scholarship

St. Louis

One US\$1,500 one-year scholarship

Faculty and Curriculum



Faculty Grants and Programs

Ferrous Metallurgy Education Today (FeMET) Initiative

The purpose of this initiative is to increase the number of students studying metallurgy and materials science in North America, and to increase the number of such students electing to pursue careers in the iron and steel industry upon graduation.

- **FeMET Curriculum Development Program**

The objective of this grant is to utilize undergraduate and graduate students to assist with enhancing industry curriculum for use in ferrous metallurgy education, with an underlying objective to increase industry awareness within the academic community. Selected university professors are awarded up to US\$25,000 over five years.

- **FeMET Design Grant Program**

This grant challenges North American university teams (students and professors) to self-declare a design challenge theme relevant to the North American steel industry. The proposal requires interaction with a local steel producer, and the program allows participation by both undergraduate and graduate students. The maximum annual grant is US\$50,000.



The FeMET scholarship has given me a taste of the steel industry and I know I want more. Without the support of AIST and the AIST Foundation, I may not have found my passion for steel. I am grateful to AIST and its members for passing their love of the industry on to me.



Sonya Snyder
AIST FeMET Scholar
Nucor Steel–Arkansas





Don B. Daily Memorial Fund

This fund was established in 2011 by the Steel Manufacturers Association (SMA) and the AIST Foundation to commemorate the life and industry service of Mr. Daily, a compassionate man who truly cared about the safety of all employees working in the steel industry. The objectives of the fund are to promote a safe workplace for the steel manufacturing industry, to increase the number of students who study health and safety awareness relative to the manufacturing environment, and to provide direct student interaction with a steel company. Selected universities are awarded US\$5,000 annually.

Kent D. Peaslee Junior Faculty Award

This award was established in 2013 in memory of Kent D. Peaslee for his unequalled passion for teaching and promoting the steel industry to students, faculty members and steel industry personnel. His achievements forged a legacy of encouragement to all those dedicated to advancing the technical development, production, processing and application of iron and steel.

The Kent D. Peaslee Junior Faculty Award, open to all technical engineering disciplines, will assist junior faculty in building their research and professional service activities toward obtaining tenure. The award will provide up to US\$100,000 over three years.

Academic Faculty Engagement Program

The purpose of this program is to increase academic faculty participation at AISTech to connect the steel industry with the technical advancements being made at universities. The Foundation will provide academic registration discounts and university pavilion discounts in the exhibit hall.



My internship at SSAB and the connections I've made have greatly influenced my decision to work in production when I graduate. I want to be close to the melting and casting process of metals. This experience has also convinced me to develop myself professionally by obtaining my Professional Engineering license.



Myrissa Maxfield
AIST Premier Scholar
SSAB Iowa



Support the Future of the Industry!



NEW

Young Professional Programs

To advance the future of the iron and steel industry, it is imperative that we support the younger generation. The AIST Foundation launched a new program to urge young professionals (30 years of age or younger) to become active AIST members.

- Free AIST Membership

AIST Young Professionals can join AIST FREE for their first year. (Please note: this offer is for new members only.)

- AISTech Registration Discount

AIST Young Professionals receive a 50% discount at AISTech 2015, Steel's Premier Technology Event. Young Professionals are also encouraged to participate in an exclusive plant tour and reception to kick off the AISTech week.



The AIST STEEL Scholarship provided the opportunity to intern at California Steel Industries. I am immensely grateful to AIST for helping to shape me as an engineer. As I explore my career opportunities, my relationship with AIST and my internship have made the steel industry a likely possibility.



Trent Stewart
AIST STEEL Scholar
California Steel Industries





Steel to Students Training Program

Technology Training Conferences are an integral component in facilitating the exchange of ideas and strengthening AIST's global network.

The AIST Foundation's Steel to Students Training Program provides up to US\$1,000 in assistance for post-secondary vocational/technical school students, undergraduate and graduate-level students to attend AIST's Technology Training Conferences and AIST Member Chapter Annual Meetings that include a technical program.

The Steel to Students program provides students with increased opportunities to become familiar with Technology Committees and learn firsthand from industry leaders in various steelmaking fields.



Student Events

Each year at major industry events such as AISTech and MS&T, the AIST Foundation provides students a window into career opportunities in the steel industry.

At these events, the AIST Foundation sponsors student programs, including:

- **Materials Camp**

Intended for high school students, these camps teach students about materials through experiments and hands-on demonstrations.

- **Student Contests**

The Student Project Presentation and Graduate Student Poster contests offer university students the opportunity to present their research to all conference attendees.

- **University-Industry Relations Roundtable (UIRR)**

The UIRR exists to foster communication between universities and the steel industry to increase the number of professors teaching a steel-related curriculum, and the number of students interested in careers in steel.





Matching Funds Challenge 4

AIST's Matching Funds Challenge 4 provides an opportunity for the AIST Foundation to gain up to an additional US\$500,000 in funding. Renewing donations will be matched equally, while new donations will be matched 2-to-1. Matching Funds Challenge 4 ends on 31 July 2015. Please consider donating today!

Please Consider a Donation Today!

The AIST Foundation continues to advance new and exciting programs to enable the steel industry to meet the challenges of the future. These programs serve the industry by:

- Creating a positive perception of the steel industry for students and those who influence them.
- Increasing awareness of the advanced technology in today's steel processes.
- Educating K-12 through university students about the rewarding nature of career opportunities in modern steelmaking.
- Providing scholarship and internship opportunities for students interested in pursuing careers in the steel industry.
- Offering financial assistance to the academic community for steel-related curriculum development and research.
- Encouraging Young Professionals to take advantage of the benefits of membership in AIST and to participate in AIST programs.

Through strong industry support, the AIST Foundation awards in excess of US\$600,000 each year in support of its mission to ensure the iron and steel industry of tomorrow will have a sufficient number of qualified professionals.

Please consider making a donation today by visiting AISTFoundation.org or contacting us at +1.724.814.3000.

The AIST Foundation thanks both the AIST membership and the steel community at large for the tremendous support that enables us to solidify a strong future for the industry.

Fred Harnack
AIST Foundation 2013–2015 President



Through this internship, I believe I am creating a solid base of steel knowledge and lab equipment experience to begin my career. Being an AIST FeMET Scholar immediately sets me apart for future career opportunities as this award honors dedicated and active students in materials science and metallurgy.



Derek Landwehr
AIST FeMET Scholar

Gerdau Long Steel North America, St. Paul Mill



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