



# ASSOCIATION FOR IRON & STEEL TECHNOLOGY FOUNDATION



# 2018 FOUNDATION INFORMATION

TO ENSURE THE IRON AND STEEL INDUSTRY OF TOMORROW WILL  
HAVE A SUFFICIENT NUMBER OF QUALIFIED PROFESSIONALS.

The AIST Foundation  
awards ***more than***  
**US\$750,000**  
annually to develop the  
steel industry's  
***next generation.***





*I am continuously impressed by AIST's generosity to students interested in steelmaking, and their determination to recruit young talent into the industry. It has been such a wonderful experience spending my summers working at the CMC Texas plant, and I look forward to utilizing what I have learned during my time in my career as a steelmaker.*

—Madeleine Jennings, Steel Intern Scholar  
Texas State University  
Commercial Metals Company – Texas



## Overview

The workforce of the North American steel industry is retiring at an alarming rate. To sustain a pipeline of qualified engineers and scientists to backfill this void, the AIST Foundation is working with the industry to attract young, technology-oriented professionals to our ranks.

### 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 Foundation works closely with the Association for Iron & Steel Technology (AIST).

### What Does the Foundation Do?

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

### How Is the Foundation Funded?

All Foundation programs rely 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 AIST members appointed by the AIST Board of Directors. See page 11 for the current list of Trustees.

# ***Engaging the Teachers***

Faculty grants are designed to promote industry awareness and increase:

- The number of engineering faculty with a vested interest in the iron and steel industry.
- The number of students studying engineering.
- The number of students pursuing a career in the iron and steel industry.



# **Faculty Grants and Programs**

## **Steel Curriculum Development Grant**

The objective is to utilize undergraduate and graduate students to assist in enhancing industry curriculum, with an underlying objective to increase industry awareness within the academic community. Selected university professors are awarded up to US\$25,000 over three years.

## **Kent D. Peaslee Junior Faculty Award**

Open to all technical engineering disciplines, this award 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.

## **Electrical Engineering Grant**

The objective is to support the professors in promoting the industry to electrical engineering students, provide direct interaction for these students with the steel industry, and to recruit more electrical engineering students for employment in the steel industry. Selected universities are awarded US\$10,000 annually.

## **Don B. Daily Safety Grant**

The objective is 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 recruit more students for employment in the steel industry. Selected universities are awarded US\$10,000 annually.

## **Academic Faculty Engagement Program**

The AIST Foundation provides discounts on AISTech — The Iron & Steel Technology Conference and Exposition academic registration and university pavilions in the exhibit hall to increase academic faculty participation.

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

The purpose of the University-Industry Relations Roundtable (UIRR) is to foster communication between the Foundation's university network and the steel industry. The committee's objective is to increase the number of professors teaching a steel-related curriculum, and to increase the number of students interested in a career in the steel industry.



*Interning for Steel Dynamics Inc. (SDI) at its Roanoke Bar Division has been an incredible experience for me. From working with the operators and helpers in the meltshop to running testing equipment in the lab, I've gotten a good exposure to steelmaking. The time spent in the lab really reinforced things I've learned in school.*

— Jonathan Barkl, Steel Intern Scholar  
Colorado School of Mines  
Steel Dynamics Inc. – Roanoke Bar Division





## ***Engaging the Students***

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.

By supporting the education of our next generation, we are building a long-term workforce that is well-trained, skilled and dedicated to the needs of tomorrow's steel industry.

## Steel to Students Training Program

The AIST Foundation's Steel to Students Training Program provides financial assistance for post-secondary vocational/technical school students, undergraduate and graduate-level students to attend AIST's Technology Training events and AIST Member Chapter annual meetings.

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 AISITech and MS&T (Materials Science & Technology), the AIST Foundation sponsors programming to provide students a window into career opportunities in the steel industry.

### **Materials Camp (MS&T) K-12**

These camps teach high school 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 conference attendees. The "Real Steel" marketing video challenge engages high school and university students in researching the industry and promoting it to others.

### **Plant Tours**

A student plant tour is offered at a location near AISITech and MS&T. In addition, the AIST Foundation will provide up to US\$300 in transportation reimbursement to groups interested in touring a nearby steel plant.



*Before my internship at Dofasco, I did not realize the sophistication of the steelmaking process. I have come to discover that it involves way more technology and knowledge than I could ever imagine. I'm very grateful for this scholarship, which not only helped me to pursue graduate studies, but also opened my mind to the steel industry through my internship at ArcelorMittal Dofasco.*

— Justin Plante, Steel Intern Scholar  
Université Laval  
ArcelorMittal Dofasco Inc.



ArcelorMittal



# **Steel Intern Scholarships and Steel Scholarships**

## **Steel Intern Scholarships**

**Summer internship followed by a US\$6,000 one-year scholarship.**

- Up to 20 one-year awards
- Premier Intern Scholarship — The top-scoring applicant will be awarded the Premier Scholarship, a one-year scholarship of US\$12,000 with a paid summer internship (preceding the scholarship).

## **Steel Scholarships**

**US\$3,000 one-year scholarship, named in honor of an individual who has made a significant contribution to or achievement in steel technology.**

- AIST Willy Korf Memorial Scholarship (4)
- AIST Ronald E. Lincoln Memorial Scholarship (3)
- AIST William E. Schwabe Memorial Scholarship (1)
- AIST Benjamin F. Fairless Scholarship (AIME) (2)
- AIST Foundation Engineering Scholarship (3)

- AIST Smith Graduate Scholarship (AIME) (2)
- AIST David H. Samson Canadian Scholarship (1)

*All AIST Foundation scholarships and internships above are open to engineering and engineering technology majors in the following disciplines: metallurgy, materials science, chemical, electrical, mechanical, industrial, environmental, computer science and safety.*

## **Member Chapter Scholarships**

**AIST's 22 Member Chapters administer more than US\$75,000 in annual scholarships for qualified individuals within their regions. There are up to 40 scholarships available.**

## **Endowment Scholarships**

**Students attending the following schools may apply at their institution directly for the AIST scholarships listed below.**

- 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 students in the Western Pennsylvania, Virginia or West Virginia areas.*

Visit [AIST.org](http://AIST.org) to apply.

# **Engaging New Recruits**

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

- Young Professionals can join AIST FREE for their first year (for new members only).
- Young Professionals receive a 50% registration discount at AISTech, steel's premier technology event.
- Young Professionals are invited to an exclusive Young Professionals' roundtable discussion and networking reception at AISTech.





*My internship at SSAB has taught me a great deal about the steel industry and the complicated science behind steel production. This internship has fascinated me with the potential and complexity of the steelmaking process, and I would like to study metallurgy at a deeper level. Thanks to this internship and scholarship, I have an exciting and interesting future career.*

— Jacob Dutler, Steel Intern Scholar  
University of Urbana-Champaign  
SSAB Iowa

**SSAB**



## We Need Your Help!

The AIST Foundation continues to advance new and exciting programs to enable the steel industry to meet the challenges of the future. Through strong industry support, the AIST Foundation awards in excess of US\$750,000 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](http://AISTFoundation.org) or contacting us at +1.724.814.3000, ext. 1.**

Kolin L. Keller  
AIST Foundation 2017–2019 President

## US\$100,000 Pledge Club

**Added benefits are provided for company pledges of US\$100,000 or more payable over four years or less.**

  
ArcelorMittal

 GERDAU

 NUCOR®

**SSAB**

 Steel Dynamics, Inc.®



*As an intern at Nucor Steel in Memphis, I had the opportunity to dive into the process of making steel in the meltshop, specifically focusing on the caster.*

*The opportunity offered through this scholarship has allowed me to find my passion for steel and to narrow my focus for my current and post-college career plans.*



— Logan Bader, Steel Intern Scholar  
Missouri University of Science and Technology  
Nucor Steel Memphis Inc.



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