

# **Materials Program Undergraduate Fellowships and Scholarships**

## **IIT Materials Program**

### **1. Marie Finkl Fellowships**

The purpose of these fellowships is to provide a stipend for undergraduate students undertaking research or other scholarly activities related to materials. Typically the stipend is \$1800 per semester.

### **2. Clayton Family Fellowships**

The purpose of these fellowships is to provide a stipend for undergraduate students undertaking research activities related to powder materials. Typically the stipend is \$1000 per semester.

### **3. Thermal Processing Technology Fellowships**

The purpose of these fellowships is to provide a stipend for undergraduate students undertaking research or other scholarly activities related to projects in the Thermal Processing technology Center. Typically the stipend is \$1800 per semester.

## **ASM International-Chicago Chapter**

### **I. Carl Samans Award**

To recognize and encourage outstanding students. one \$1500 award per year.

### **2. Chicago Regional Chapter Awards**

Encourage students to pursue careers in materials science and metallurgical engineering. Two awards each year of \$1000.

## **ASM International**

- **George A. Roberts Scholarships** - Up to seven scholarships at \$6,000 each. Established in 1995 through a generous contribution by Dr. George A. Roberts, Past President of ASM and Retired CEO of Teledyne, as an expression of his commitment to education and the materials science and engineering community.

- **William Park Woodside Founder's Scholarship** - One year full tuition of up to \$10,000. Established in 1996 by Mrs. Sue Woodside Shulec in honor of her grandfather, William Park Woodside, a man whose vision and leadership evolved into the founding of ASM International.

- **Nicholas J. Grant Scholarship** - One year full tuition. Established in 1990 by one of Dr. Grant's former students, Dr. Joseph R. Lane. Created to honor Dr. Grant and recognize students who have excelled in the areas of scholarship, leadership and service.

- **ASM Outstanding Scholars Awards\*** - Three awards at \$2,000 each, to recognize distinguished scholars.

- **Edward J. Dulis Scholarship** - One award at \$1,500. Established in 2003 by the family of Edward J. Dulis, who was a Fellow of ASM International.

- **John M. Haniak Scholarship** - One award at \$1,500. Established in 2003 by the family of John Myron Haniak, who was a life long dedicated member of ASM International.

- **Lucille & Charles A. Wert Scholarship** – One year full tuition of up to \$10,000. Established in 2006 through a generous bequest by Dr. & Mrs. Charles Wert as an expression of their commitment to education and the materials science and engineering community.

## **TMS**

### **J. Keith Brimacombe Presidential Scholarship**

**One** \$5,000 cash award scholarship is made to an undergraduate student majoring in metallurgical engineering, materials science and engineering, or minerals processing/extraction programs. In addition, a travel stipend of \$1,000 is available for the recipient to attend the TMS Annual Meeting, to formally receive the scholarship.

### **Light Metals Division Scholarship**

Three-\$4,000 cash award scholarships are available to undergraduate students majoring in metallurgical and/or materials science and engineering with an emphasis on both traditional (aluminum, magnesium, beryllium, titanium, lithium and other reactive metals) and emerging (composites, laminates, etc.) light metals. Additionally, the scholarship recipients are given the opportunity to select up to \$300 worth of Light Metals Division-sponsored conference proceedings or textbooks to be donated in the recipient's name to his/her college or university library. Each recipient may also choose up to \$400 worth of books for his/her personal use. As the awards are presented during the Light Metals Division luncheon at the **TMS Annual Meeting and Exhibition**, up to \$600 for travel expenses is available to each recipient.

This scholarship is open to full-time undergraduate applicants in their sophomore or junior years and to individuals who have participated in relevant industrial co-op programs. Scholarship recipients are known as **LMD** Scholars.

### **Materials Processing and Manufacturing Division Scholarship**

Two (2) \$2,500 scholarships are awarded to undergraduate students majoring in metallurgical and/or materials science and engineering with an emphasis on manufacturing from product design to production, integrating process control technology into manufacturing, and basic and applied research into key materials technologies that impact manufacturing processes. Recipients are chosen by a

specially-appointed selection committee of the TMS Student Affairs Committee. Recipients are known as **MPMD** Scholars. A \$2,500 scholarship is awarded to each recipient at the **TMS Annual Meeting and Exhibition**. Additionally, each recipient receives up to \$500 for travel expenses to attend the meeting to accept the award.

### **Structural Materials Division Scholarship**

Two (2) \$2,500 scholarships are awarded to undergraduate students majoring in metallurgical and/or materials science and engineering with an emphasis on manufacturing from product design to production, integrating process control technology into manufacturing, and basic and applied research into key materials technologies that impact manufacturing processes. Recipients are chosen by a specially-appointed selection committee of the TMS Student Affairs Committee. Recipients are known as **MPMD** Scholars. A \$2,500 scholarship is awarded to each recipient at the **TMS Annual Meeting and Exhibition**. Additionally, each recipient receives up to \$500 for travel expenses to attend the meeting to accept the award.

### **Extraction and Processing Division Scholarship**

Four-\$2,000 cash award scholarships are available to undergraduate students majoring in the extraction and processing of minerals, metals and materials. Each scholarship recipient is also given the opportunity to select up to five Extraction & Processing Division-sponsored conference proceedings or textbooks to be donated in the recipient's name to his/her college or university library. Awards are presented during the Extraction & Processing Division luncheon at the **TMS Annual Meeting and Exhibition**. Up to \$500 for travel expenses is available to each recipient in order to accept the award at the luncheon. This scholarship is open to full-time undergraduate applicants in their sophomore or junior years. Scholarship recipients are known as **EPD** Scholars.

### **Electronic, Magnetic & Photonic materials Division**

#### **Gilbert Chin Scholarship**

One-\$2,000 cash award is available to an undergraduate student studying subjects in relation to synthesis and processing, structure, properties, and performance of electronic, photonic, magnetic, and superconducting materials as well as materials used in packaging, and interconnecting such materials in device structures. An additional \$500 for travel expenses is available to the recipient in order to personally accept the award at the **TMS Annual Meeting and**

### **Exhibition.**

This scholarship is open to undergraduate applicants in their sophomore and junior years who are enrolled full-time in a program that includes the study of electronic materials. The scholarship recipient is known as the **EMPMD** Gilbert Chin Scholar.

### **International Symposium on Superalloys Scholarship**

Two-\$2,000 cash award scholarships with up to \$500 in travel reimbursements are available to undergraduate and graduate students majoring in metallurgical and/or materials science and engineering with an emphasis on all aspects of the high-temperature, high-performance materials used in the gas turbine industry and all other applications. Awards are presented in conjunction with the **Materials Science and Technology Conference**.

This scholarship is open to undergraduate and graduate students. Recipients are chosen by a specially appointed selection committee of the TMS Student Affairs Committee and by the International Symposium on Superalloys Organizing Committee.

## **Forging Industry Education and Research Foundation**

### **Charles W. Finkl Scholarship Program**

Forging Industry Educational and Research Foundation (FIERF) has established the Charles W. Finkl Scholarship Program to assist college juniors, with select majors, pursue their post-secondary education. Renewable scholarships are offered for full-time study at an accredited institution of the student's choice.

### **FIERF Fellowship**

Awarded annually, the \$10,000 FIERF Fellowship provides support for graduate student research of forging industry interest.

### **FIERF Forging Achievement Awards**

The purpose of the FIERF Forging Achievement Award program is to encourage student interest in forging processes and the forging industry. Participants are required to complete a paper that documents the findings of their research with the hope that these findings will have hold value to the forging industry at large.

The award provides up to \$2000 to students and up to \$1000 to sponsoring faculty members

## **CM Magazine Scholarship**

### **Gary B. Multanen Applied Research Student Scholarship**

The Gary B. Multanen/Composites Manufacturing Magazine Applied Research Student Scholarship is offered to graduate and undergraduate students participating in composites-related research. One winning candidate will receive a \$1,000 award, have his or her research published in Composites Manufacturing magazine, and receive an all-expense-paid trip to the American Composites Manufacturers Association's (ACMA) COMPOSITES & POLYCON 2007 conference in Tampa, Florida. **Deadline for applications is Friday, June 29**, so please encourage your students to apply.

## **AIST**

**AIST Willy Korf Memorial Fund** - (Application deadline is March 2)  
- three (3) \$2,000 one-year scholarships will be awarded for the 2007-2008 school year.

Administered by the AIST Foundation, this scholarship was established by Korf Lurgi Steeltec, Inc. to honor the late Willy Korf, Founder of the Korf Group and a well-known promoter/developer of innovative technology. Scholarships will be granted to full-time undergraduate students with a genuine demonstrated interest in a career in the iron and steel industry and majoring in the field of engineering, metallurgy or materials science at an accredited U.S. college or university.

**AIST Ronald E. Lincoln Memorial Scholarship** - (Application deadline is March 2)

- two (2) \$2,000 one-year scholarships will be awarded for the 2007-2008 school year.

Administered by the AIST Foundation, this scholarship was established by Chaparral Steel as a tribute to Ronald Lincoln and is awarded to individuals who best exemplify the qualities of leadership and innovation for which Mr. Lincoln was so well known throughout his career. Scholarships will be granted to full-time undergraduate students with a genuine demonstrated interest in a career in

the iron and steel industry and majoring in the field of engineering, metallurgy or materials science field at an accredited U.S. college or university.

**AIST Benjamin F. Fairless Scholarship (AIME)** - (Application deadline is March 2)

- three (3) \$2,000 one-year scholarships will be awarded for the 2007-2008 school year.

This scholarship is administered by the AIST Foundation on behalf of the American Institute of Mining, Metallurgical and Petroleum Engineers (AIME). The Fairless Award was established in 1954 by a grant from U.S. Steel Corp. in memory of its longtime Chairman of the Board. The scholarship recipient is selected from candidates in the leading metallurgical departments in North America.

**AIST William E. Schwabe Memorial Scholarship** - (Application deadline is March 2)

- One \$2,000 one-year scholarship will be awarded for the 2007-2008 school year.

Administered by the AIST Foundation, this scholarship was established in 2005 by the Steel Manufacturers Association (SMA) to commemorate the life and industry service of Mr. Schwabe, a pioneer in the application of electrical engineering technology to the advancement and refinement of electric arc furnace steelmaking. Scholarships will be granted annually to an undergraduate student enrolled full-time and majoring in the field of engineering, metallurgy or materials science program at an accredited North American university. The applicant should have a demonstrated interest in a career, or plans to pursue a career, in the iron and steel industry.

**AIST Don Nelson Scholarship** - (Application deadline is March 15)

- one (1) \$1,000 one-year scholarship will be awarded for the 2007-2008 school year.

Administered by the **AIST Midwest Member Chapter** on behalf of the AIST Foundation, this scholarship was established for area students to encourage them to prepare for a career in engineering.

*Recipients of the above AIST Foundation Scholarship will receive a complimentary student membership to the **Material Advantage Student program**, for each year they receive a scholarship.*

**Ferrous Metallurgy Education Today (FeMET)** - (Application deadline is March 2)

Ten \$5,000 two-year scholarships will be awarded for the 2007-2008 school year to ferrous metallurgy and/or material science majors in their junior and senior year.

Administered by The American Iron and Steel Institute (AISI) and the Association for Iron and Steel Technology Foundation (AIST Foundation). Each recipient will be awarded \$5,000 their junior year, a paid summer internship with a North American steel company between their junior and senior year, and \$5,000 toward their senior year tuition. It is the program's goal that this scholarship and summer internship provides incentive for students to become involved in the steel industry. As a result, students entering the program are ensured a two-year commitment by the program, provided a satisfactory performance by the student both academically and in their internship.

**STEEL Engineering Education Link Initiative** (Application deadline is March 2)

Ten \$5,000 two-year scholarships will be awarded for the 2007-2008 school year to under graduate engineering students expecting to graduate in 2009.

Administered by The American Iron and Steel Institute (AISI) and the Association for Iron and Steel Technology Foundation (AIST Foundation), these scholarships were established in 2006 as part of the STEEL Engineering Education Link Initiative. Each recipient will be awarded \$5,000 their junior year, a paid summer internship with a North American steel company between their junior and senior year, and \$5,000 toward their senior year tuition. It is the program's goal that this scholarship and summer internship provides incentive for students to become involved in the steel industry. As a result, students entering the program are ensured a two-year commitment by the program, provided a satisfactory performance by the student both academically and in their internship.

### **AIST Midwest Chapter Scholarships**

(Application deadline is March 15th)

- **Betty McKern Scholarship**

One (1) \$2,500 one-year scholarship

- **Mel Nickel Scholarship**

One (1) \$2,500 one-year scholarship

- **Jack Gill Scholarship**

One (1) \$2,500 one-year scholarship

- **Western States Award**

One (1) \$2,500 one-year scholarship

- **Non engineering scholarships**

**Two (2) \$1,000 one-year scholarship**

Administered by the AIST Midwest Member Chapter, these scholarships were established for area students to encourage them to prepare for a career in engineering, metallurgy or the physical sciences.