



## MANUFACTURING SCHOLARSHIPS

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CENTER FOR WORKFORCE DEVELOPMENT [www.maricopa.edu/workforce](http://www.maricopa.edu/workforce)

### Maricopa Community Colleges Foundation [www.maricopa.edu/foundation/](http://www.maricopa.edu/foundation/)

The Maricopa Community Colleges Foundation offers scholarships in a variety of areas. Students can apply online at [www.maricopa.edu/foundation/apply/index.php](http://www.maricopa.edu/foundation/apply/index.php). For more information contact Kala Weinacker at [kala.weinacker@domail.maricopa.edu](mailto:kala.weinacker@domail.maricopa.edu) / (480) 731-8407. 2010-1011 Scholarship Deadline: April 9, 2010.

### NSF Scholarships for Science, Technology, Engineering and Mathematics Program (S-STEM) [www.cgc.maricopa.edu/engineering](http://www.cgc.maricopa.edu/engineering)

The overarching goal of the Chandler-Gilbert Community College High Tech Transfer Program Scholars (HTTPS) Project is to provide specialized educational opportunities and services for academically talented full-time financial-aid eligible students with majors or program interests pursuing degrees in the fields of Science, Technology, Engineering and Math (STEM). Anyone with a financial need can apply. All HTTPS recipients will have an ultimate goal to complete an Associate Degree and/or transfer to a Baccalaureate Degree-granting institution, and a long term goal of entering the workforce in their skill area. Average scholarship is \$2500 per semester, or \$5000 per year. Deadline: August 8, 2010.

#### Eligibility Requirements:

- Be enrolled full time (12+ credit hours) at CGCC in a degree program at the associate level in one of the following disciplines. Enrollment must be full time for each semester a student received a scholarship.
  - engineering; biological sciences (except medicine and other clinical fields); physical sciences, including physics, chemistry, astronomy and materials science; mathematics; computer and information sciences.
- Grade Point Average (GPA) of 2.75 or higher.
- US Citizen or eligible for Federal Financial Aid.
- You will need to complete a Free Application for Federal Financial Aid (FAFSA). You must demonstrate financial need via FAFSA. Financial Aid office will determine your unmet need.

### Society of Manufacturing Engineers [www.sme.org](http://www.sme.org)

Successful scholarship applicants will receive a minimum award of \$1,000. On average the Foundation awards over 100 scholarships annually.

#### All Applicants Must:

- Be pursuing a degree in manufacturing engineering, manufacturing engineering technology, or a closely related manufacturing field of study.
- Reside in and attend an accredited institution in the United States or Canada.
- Meet minimum requirements as outlined in the individual scholarship descriptions.

The application and supporting documentation for scholarships must be submitted online by February 1.

#### **SME Education Foundation Family Scholarship**

*GPA Required (minimum overall): 3.0. Criteria:* Applicants must be a child or grandchild of an SME member, be either a graduating high school senior or undergraduate student with no more than 30 credit hours, and have a minimum SAT score of 1000, and/or ACT score of 21.

#### **Caterpillar Scholars Award**

*GPA Required (minimum overall): 3.0. Criteria:* Scholarship applicants must be a full-time undergraduate student enrolled in a manufacturing engineering degree program, have completed a minimum of 30 college credit hours, and be

seeking a career in manufacturing engineering. Preference will be given to students who have participated in a STEPS camp. All minority scholarship applicants may apply as incoming freshmen.

### **Chapter 67 - Phoenix Scholarship**

*GPA Required: 3.0. Criteria:* Scholarship applicants must be a graduating high school senior or current undergraduate student pursuing a bachelor's degree in manufacturing engineering or a closely related field and who plan to or are attending an accredited college or university in Arizona.

### **E. Wayne Kay High School or Community College Scholarship**

*GPA Required (minimum overall): 3.0. Criteria:* Applicants must be a graduating high school student in their senior year who commits to enroll in a manufacturing engineering or technology program at an accredited community college, trade school, or other two-year degree-granting institution which offers programs in manufacturing or a closely related field.

### **SME Education Foundation – FIRSTRobotics Scholarship**

*GPA Required: 2.0. Criteria:* Applicants must be seeking an associate's degree or bachelor's degree in manufacturing engineering, industrial engineering, manufacturing technology, or a closely related field of study. Applicants must have participated in a FIRSTRobotics Competition or FIRSTTech Challenge during high school.

### **Walt Bartram Memorial Education Award (Region 12 & Chapter 119)**

*GPA Required (minimum overall): 2.5. Criteria:* Applicants must be a graduating high school student planning on enrolling or a current full-time undergraduate student who must be enrolled in manufacturing engineering or a related field of study at a college or university within the areas of Arizona, New Mexico, and Southern California. Also applicants must be SME members unless they are high school students.

### **Connie and Robert T. Gunter Scholarship**

*GPA Required: 3.5. Criteria:* Applicants must be a full-time undergraduate student enrolled in a manufacturing engineering or technology degree program, have at least 30 college credit hours.

### **Edward S. Roth Manufacturing Engineering Scholarship**

*GPA Required: 3.0. Criteria:* Scholarship applicants must be an U.S. citizen and current full-time undergraduate student enrolled in an accredited four-year degree program in Manufacturing Engineering at the one of the 13 listed ABET accredited schools (see criteria for list) seeking a Bachelor's or Master's degree. Preferences will be given to students demonstrating financial need, minority students and students participating in a Co-Op program. Some preferences may be given to graduating high school seniors and graduate students.

### **Future Leaders of Manufacturing Scholarships**

Created in partnership with SME, these scholarships and the application process for them were designed to strengthen ties with SME's student chapters. Students cannot apply directly for this scholarship, but must be nominated by their chapter's faculty advisor.

### **Giuliano Mazzetti Scholarship**

*GPA Required: 3.0. Criteria:* All applicants must be a full-time undergraduate student enrolled in a degree program in manufacturing engineering or technology with a minimum of 30 college credit hours.

### **Lucile B. Kaufman Women's Scholarship**

*GPA Required: 3.0. Criteria:* All applicants must be a FEMALE full-time undergraduate student enrolled in a degree program in manufacturing engineering or technology with a minimum of 30 college credit hours.

### **Myrtle and Earl Walker Scholarship**

*GPA Required: 3.0. Criteria:* Scholarship applicants must be a full-time undergraduate student enrolled at an accredited trade school or degree-granting institution which offers programs in manufacturing engineering or technology with a minimum of 15 college credit hours.

### **SME Directors Scholarship**

*GPA Required: 3.5. Criteria:* Scholarship applicants must be a full-time undergraduate student currently enrolled in a manufacturing degree program at a U.S. or Canadian college with a minimum of 30 college credit hours.

### **SME Education Foundation Family Scholarship**

*GPA Required (minimum overall): 3.0. Criteria:* Applicants must be a child or grandchild of an SME member, be either a graduating high school senior or undergraduate student with no more than 30 credit hours, and have a minimum SAT score of 1000, and/or ACT score of 21.

### **William E. Weisel Scholarship**

*GPA Required: 3.0. Criteria:* All applicants must be a full-time undergraduate student enrolled in an engineering or technology program in the United States or Canada. Preference will be given to a student seeking a career in robotics or automated systems used in manufacturing. Consideration will be given to students who intend to apply their knowledge in the sub-specialty of medical robotics.

### **E. Wayne Kay Graduate Scholarship**

*GPA Required: 3.0. Criteria:* All applicants must be a full-time student and accepted in a graduate program for a Masters or Doctorate degree with a manufacturing or industrial engineering emphasis.

## **Society Women Engineers Scholarships**

[www.swe.org](http://www.swe.org)

The SWE Scholarship Program provides financial assistance to women admitted to accredited baccalaureate or graduate programs, in preparation for careers in engineering, engineering technology and computer science. In fiscal year 2008, SWE disbursed more than 130 new and renewed scholarships valued at more than \$400,000. Grants are announced in the summer (sophomore, junior, senior and graduate students) and late summer/early fall (freshmen and reentry students) for use during the following academic year. SWE Scholarships are only open to women pursuing baccalaureate or graduate degrees in engineering or computer science, as well as engineering and computer science students or having graduated from ABET-accredited engineering programs. Deadline: May 14, 2010.

- Annually, SWE awards individual scholarships to freshmen through graduate students
- Scholarships and fellowships range from \$1,000 to \$10,000 each
- In 2008, SWE national scholarship distributions were over \$400,000
- Many professional SWE sections offer additional scholarships

## **Society of American Engineers (SAE) Scholarships**

[www.sae.org](http://www.sae.org)

SAE scholarships assist in developing the future engineering workforce by helping students achieve their dreams of becoming an engineer. Funded through the SAE Foundation, these scholarships encourage academic excellence and help students around the world to pursue their passion for engineering. Deadline: January 15. For scholarship information, contact the Scholarship Administrator, (724) 776-4970.

### **SAE Engineering Scholarships - Application Deadline: December 15 of senior year**

A number of scholarships are offered to high school seniors who are interested in studying engineering or a related science. These scholarships are made possible by the support of the corporate and academic communities. Applications are accepted from September 1 - December 15 of the student's senior year.

### **SAE/David Hermance Hybrid Technologies Scholarship - Application Deadline: April 1**

One \$2,500 non-renewable scholarship will be awarded every year. Eligible applicants must be U.S. citizens enrolled full-time as a sophomore in a U.S. university. Applicants must plan to pursue an engineering career in the field of Advanced Technology Vehicles which include hybrids, fuel cells, alternative fueled vehicles, advanced powertrains, etc. This scholarship is made possible through the generous support of Toyota.

### **Yanmar/SAE Scholarship - Application Deadline: April 1**

Applicants must be juniors entering their senior year of undergraduate engineering or enrolled in a post graduate engineering or related science program. Applicants must be pursuing a course of study or research related to the

conservation of energy in transportation, agriculture and construction, or power generation. This scholarship is made possible through the generous support of Yanmar Diesel America Corporation.

**Ralph K. Hillquist Honorary SAE Scholarship - Application Deadline: February 1, 2009**

A \$1,000 nonrenewable scholarship will be awarded every other year at the SAE Noise & Vibration Conference, beginning in 2005. Eligible applicants will be U.S. citizens enrolled full-time as a junior in a U.S. university as of October 1 and pursuing an engineering or automotive-related discipline. A minimum 3.0 GPA with significant academic and leadership achievements is required. This scholarship was established to honor Ralph K. Hillquist, a retiree from General Motors Proving Grounds, and is funded by the SAE Noise & Vibration Conference and related activities.

**The Association for the Advancement of Cost (AAACE) Engineering**

[www.aacei.org](http://www.aacei.org)

AAACE International is dedicated to advancing the study of cost engineering, and cost management through the integrative process of total cost management. To promote this objective, AAACEI awards academic scholarships to full-time students pursuing a related degree in engineering, construction management, building construction, computer sciences, business, quantity surveying, information technology, etc. Scholarship Descriptions AAACE International scholarships are available in amounts ranging from \$2000 to \$8000. Eligibility Applicants must be currently enrolled full-time students who are enrolled in a program related to cost engineering/cost management. These programs include: Agricultural Engineering, Architectural Engineering, Building Construction, Business Administration, Chemical Engineering, Civil Engineering, Industrial Engineering, Manufacturing Engineering, Mechanical Engineering, Mining Engineering, Electrical Engineering, Quantity Surveying. Applicants in their final undergraduate year must have been accepted to attend a full-time graduate program in the next academic year to qualify for a scholarship.

**Hispanics in Science, Technology, Engineering and Math**

[www.henaac.org](http://www.henaac.org) / [www.greatmindsinstem.org/henaac/scholars](http://www.greatmindsinstem.org/henaac/scholars)

HENAAC has a goal of providing over \$250,000 in scholarships in 2009. Scholarship dollar amounts for the sponsors listed below range from \$500 to \$5,000. The total number of scholarships awarded will be based on final contributions given to the scholarship program by July 30, 2009. HENAAC encourages all engineering, applied science, computer science and math students to apply. Deadline: April 30, 2010.

**Society of Plastic Engineers Foundation (SPE) Available and General Scholarships**

[www.4spe.org](http://www.4spe.org)

The SPE Foundation offers numerous scholarships to students who have demonstrated or expressed an interest in the plastics industry. While most scholarships do not require specific knowledge or have special criteria, some scholarships are limited in scope.

**Foundation Scholarships**

Multiple undergraduate and graduate scholarships range up to \$4,000 annually. Scholarships are awarded for one year only, but applicants may apply for a re-award for up to three additional years.

**Injection Molding Division Scholarship**

One award of \$3,000 will be made annually to a graduate or undergraduate student. Applicants must have experience in the injection molding industry, such as courses taken, research conducted, or jobs held.

**Robert E. Cramer/Product Design & Development Division/Mid-Michigan Section Scholarship**

One undergraduate award of \$1,000 is made annually.

**Ted and Ruth Neward Scholarships**

Three undergraduate or graduate awards of \$3,000 are made annually to citizens of the United States.

**Polymer Modifiers and Additives Division Scholarships**

Three \$4,000 undergraduate awards are made annually.

**Thermoplastic Materials & Foams Division Scholarship**



One undergraduate award of \$2,500 will be made.

### **Vinyl Plastics Division Scholarship**

One \$3,000 undergraduate award will be made annually. Preference will be given to applicants with experience in the vinyl industry, such as courses taken, research conducted or jobs held.

### **The SPE Foundation Special Scholarships**

#### **Blow Molding Division Memorial Scholarships**

Up to two awards of \$8,000 (payable over 2 years) will be made per year. Applicants should be completing the second year of a 4-year undergraduate plastics engineering program, be a member of an SPE Student Chapter, and submit an essay on the importance of blow molding.

#### **Composites Division/Harold Giles Scholarship**

One undergraduate or graduate award of \$1,000 is made annually. Applicants must have experience in the composites industry, such as courses taken, research conducted, or jobs held.

#### **Extrusion Division/Lew Erwin Memorial Scholarship**

One award of \$2,500 is made each year to support undergraduate or graduate research in the field of polymer extrusion. Applicants must be a Ph.D. candidate, or be working on a Senior or M.S. project which the scholarship will help support.

#### **Fleming/Blaszczak Scholarship**

This \$2,000 scholarship is available to full-time undergraduate students at a 4-year college or students enrolled in a graduate program. Applicants for this award must be of Mexican descent and citizens or legal residents of the United States.

#### **K. K. Wang Scholarship**

One award of \$2,000 will be made to a graduate or undergraduate student. Applicants must have experience in injection molding and computer-aided engineering (CAE), such as courses taken, research conducted, or jobs held.

#### **Plastics Pioneers Association Scholarships**

Multiple \$3,000 scholarships are available for undergraduate students, including those enrolled in associate degree or technical degree programs, who are committed to becoming "hands-on" workers in the plastics industry - students who are dedicated to a career as plastics technicians or engineers.

#### **Thermoforming Division Memorial Scholarships**

Multiple scholarships up to \$7,500 are awarded annually to graduate or undergraduate students, including those enrolled in associate or technical degree programs. Applicants must have experience in the thermoforming industry, such as courses taken, research conducted, or jobs held.

#### **Thermoplastic Elastomers Special Interest Group Scholarship**

One award of \$1,000 will be made annually to a graduate or undergraduate student. Applicants must have experience in the thermoplastic elastomers industry, such as courses taken, research conducted, or jobs held.

#### **Thermoset Division Scholarships**

In memory of Harold Giles and in honor of James Cunningham, two awards of \$1,500 are available - one for a graduate student and one for an undergraduate student. Applicants must have experience in the thermoset industry, such as courses taken, research conducted or jobs held.

#### **Western Plastics Pioneers Scholarship**

One award of \$1,000 is available for undergraduate students, including those enrolled in associate degree or technical degree programs. Applicants must be attending school in Arizona, California, Oregon or Washington state.