

# ENTER the 2015 International Aluminum Extrusion Design Competition

**Entry Deadline:**  
**March 30, 2015**

# CALL FOR ENTRIES



ALUMINUM  
EXTRUDERS  
COUNCIL

The **ET Foundation** and the **Aluminum Extruders Council**—the international trade association dedicated to advancing the effective use of aluminum extrusion in North America—is inviting entries for the 2015 Aluminum Extrusion Design Competition. If you are a student studying design, architecture, engineering, or other related field, be sure to enter the competition to show off your talent and for a chance to earn money for school!

## YOUR DESIGN COULD WIN MONEY!

*Winning designs will be awarded with scholarships presented as cash prizes to the best student designs submitted.*

### SCHOLARSHIP AWARDS

Winning entries will be eligible for the following scholarship awards:

First Place	\$3,000
Second Place	\$2,000
Third Place	\$1,000
Sustainable Design	\$2,500

### SUSTAINABLE DESIGN AWARD

In addition to the First-, Second-, and Third-Place Awards, the Sustainable Design Award will be presented to the student entry that, in addition to meeting the four basic ET Foundation Design Competition criteria, best addresses societal and/or environmental concerns. The entry must be a viable extrusion-based product that meets the demands of the environment while contributing to the quality of life for its intended users. Examples would be a device that helps a third-world farmer increase crop yields with less labor or an item that facilitates daily living for the handicapped or elderly.

Interested student applicants should indicate that they are seeking consideration for the Sustainable Design Award on the Design Competition Entry Form and explain, in their written brief, how their entry meets the criteria.

Visit [www.ETFdesign.org](http://www.ETFdesign.org) for past winning entries and more information.

## Design, Architecture, and Engineering Students:

Apply what you've learned about design and engineering by entering the International Aluminum Extrusion Design Competition. It's an excellent opportunity for a hands-on learning experience with the potential for professional recognition and earned scholarships. To help you get started, the Aluminum Extruders Council has provided a wealth of technical resources on aluminum extrusion at [www.aec.org](http://www.aec.org) and [www.ETFdesign.org](http://www.ETFdesign.org).

Aluminum extrusion is an incredibly versatile metal-forming process that engineers and designers employ to create a wide variety of products and components ranging from architecture and aerospace to solar power and medical equipment. Combining aluminum with the extrusion process can yield optimal results in terms of form, fit, function, appearance, and cost.

Through the flexibility of the aluminum extrusion process, aluminum extrusions (profiles) can be creatively fine-tuned to fit the design requirements or to be specifically branded with your details. Aluminum profiles can be formed to:

- Reduce piece count / provide complex integral features
- Facilitate manufacturing and assembly
- Reduce costs and lead times for materials and production
- Increase product reliability and durability
- Simplify maintenance and repairs for the final user of the product
- "Build in" an attractive appearance that can make the product easier to sell

## ELIGIBILITY AND REQUIREMENTS

There is no cost to participate in the Aluminum Extrusion Design Competition. Keep in mind the following guidelines and requirements when submitting an entry for consideration.

1. Entrants for the 2015 Student Design Competition must currently be enrolled in a 2-year, 4-year, trade, technical school, or high school to be eligible to participate. Undergraduate and graduate students are eligible.
2. Designs must be original and contain at least one extruded aluminum component.
3. Submit a completed "Official Entry Form" and include your school as well as your permanent address, phone and e-mail address.
4. Students may submit multiple entries and must include a completed entry form for each design.
5. Team submissions will be accepted. Submissions on CD-ROM or flash drive are acceptable and encouraged, however a printed copy of the entry form and each supporting document must accompany the submission. You may be asked to supply electronic images of your design to be included on our website and for promotional purposes.
6. Entries must be received by the ET Foundation® at the address noted on the entry form no later than March 30, 2015.

## DESIGN CONSIDERATIONS

The object of the Aluminum Extrusion Design Competition is to recognize product or component designs that utilize one or more extruded aluminum parts. Winning designs will be those that best demonstrate the superior benefits of aluminum extrusions whether by creating a new product or improving an existing one.

Entries will be judged on how well they demonstrate the design and manufacturing advantages of extruded aluminum. A jury of professionals involved in the aluminum extrusion industry will review the entries based on the following criteria:

**CREATIVITY:** Have fun coming up with unique, improved, and exciting applications for extruded aluminum! Be creative and inventive. Think outside the box to come up with new, inventive, and resourceful uses for extruded aluminum!

**PRACTICALITY:** Is the design cost-effective, easy to fabricate and assemble? Have you improved a product by using extruded aluminum over other materials and/or processes?

**PRODUCT/PROCESS ADVANTAGE:** Does your design take full advantage of the capabilities of the extrusion process? Does it employ the performance characteristics of aluminum; demonstrate the inherent advantages of the material and the process?

**MARKET IMPACT/POTENTIAL:** Will your design be marketable? What is the likelihood of commercial success?

**PRESENTATION & RESEARCH:** Presentation of the overall entry, including the supporting materials, is an important consideration when submitting your entry.

## DO YOUR HOMEWORK AND RESEARCH!

Visit the U.S. Patent Office website at [www.uspto.gov](http://www.uspto.gov) to research your product's commercial viability, improve on your design, or investigate your idea.

Be specific, detailed, and thorough with your design entry materials. Include as many supporting documents and as much information as possible. Be sure to include research and background information, dimensions, alloy selection, and justification for your design. In addition, approach the competition as if you are trying to sell your design to a manufacturer. State your case like your career depends on it (because some day it may!).

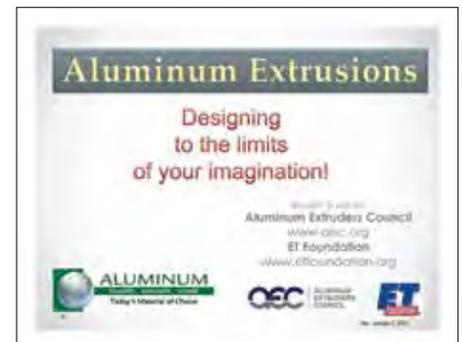
## HELPFUL DESIGN RESOURCES

A free slide presentation, "*Designing to the Limits of Your Imagination*" is available to download at [www.ETFdesign.org](http://www.ETFdesign.org). Learn about the material and design advantages, applications for aluminum extrusions, and more. The curriculum of most design and engineering courses include very little information about the versatility and advantages of aluminum extrusion. However, the Aluminum Extruders Council is working toward bringing aluminum extrusion process and application information into the classroom.

If you would like an AEC member to come and present educational information to your class, contact AEC at [mail@aec.org](mailto:mail@aec.org).

### [www.aec.org](http://www.aec.org)

In addition, the AEC website at [www.AEC.org](http://www.AEC.org) includes an abundance of information—from an overview of the aluminum extrusion process and choosing the right aluminum alloy, to design considerations and useful publications.





# 2015 International Aluminum Extrusion Design Competition

## STUDENT CLASS ONLY Official Entry Form & Competition Rules

### STEP 1: Complete your Contact Information

#### I AM A STUDENT STUDYING:

- Design       Engineering       Architecture       Other \_\_\_\_\_
- In addition, I am entering my design in the Sustainable Design Category (see the Call for Entries for entry criteria.)

#### STUDENT'S PERMANENT ADDRESS

NAME \_\_\_\_\_

ADDRESS \_\_\_\_\_

CITY \_\_\_\_\_ STATE/PROVINCE \_\_\_\_\_

COUNTRY \_\_\_\_\_ ZIP/POSTAL CODE \_\_\_\_\_

TELEPHONE \_\_\_\_\_

E-MAIL \_\_\_\_\_

#### UNIVERSITY OR COLLEGE ATTENDING INFORMATION

SCHOOL NAME \_\_\_\_\_

ADDRESS \_\_\_\_\_

CITY \_\_\_\_\_ STATE/PROVINCE \_\_\_\_\_

COUNTRY \_\_\_\_\_ ZIP/POSTAL CODE \_\_\_\_\_

CLASS (JUNIOR, SENIOR, ETC.) \_\_\_\_\_ STUDENT'S MAJOR \_\_\_\_\_

#### STUDENT'S SCHOOL ADDRESS

ADDRESS \_\_\_\_\_

CITY \_\_\_\_\_ STATE/PROVINCE \_\_\_\_\_

COUNTRY \_\_\_\_\_ ZIP/POSTAL CODE \_\_\_\_\_

#### STUDENT'S FACULTY ADVISOR INFORMATION

ADVISOR'S NAME \_\_\_\_\_

ADVISOR'S TITLE \_\_\_\_\_

ADVISOR'S MAILING ADDRESS (IF KNOWN) \_\_\_\_\_

ADVISOR'S PHONE \_\_\_\_\_

ADVISOR'S EMAIL \_\_\_\_\_

### STEP 2: Explain your Entry (You may supply this information in a separate document.)

NAME OF PART AND/OR PRODUCT \_\_\_\_\_

IS PRODUCT IN PRODUCTION? \_\_\_\_\_ ALLOY SPECIFIED \_\_\_\_\_

WHAT IS THE APPLICATION FOR YOUR DESIGN? \_\_\_\_\_

#### ON THIS FORM OR ON A SEPARATE SHEET OF PAPER ANSWER AND EXPLAIN THE FOLLOWING QUESTIONS:

REASON ALUMINUM AND THIS ALLOY WERE CHOSEN \_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

WHY IS THIS ENTRY AN EXCEPTIONAL EXAMPLE OF ALUMINUM EXTRUSION. (WHAT OBJECTIVES DOES IT ACCOMPLISH? EXPLAIN WHAT JUDGING CRITERIA YOUR ENTRY ADDRESSES) USE ADDITIONAL PAGES IF NECESSARY. \_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

#### ACCOMPANYING MATERIALS

While it is not always practical to include a sample of the product, it is advisable to include as much support material with as much detail as possible that illustrates the design, its utility, and practicality.

- sample of part/product       design drawings       model
- descriptive literature       audio-visual materials       photos
- other \_\_\_\_\_

For team submissions, each member shall complete and sign a copy of the form. A photocopy of this form may be used for additional submissions.

STUDENT SIGNATURE \_\_\_\_\_

DATE \_\_\_\_\_

### STEP 3: Mail your Entry

Completed entry form with your supporting materials must be received by **March 30, 2015**.

Send to:  
**International Aluminum Extrusion  
Design Competition**

**ET Foundation**  
1000 N. Rand Road, Suite 214  
Wauconda, IL 60084

Phone: 847.526.2010 • Fax: 847.526.3993

[mail@etfoundation.org](mailto:mail@etfoundation.org)



**COMPETITION RULES:** Entries must be received by the ET Foundation® by March 30, 2015. Submission of an entry acknowledges the right of the ET Foundation to use it for exhibition and publication. All entries received shall become the property of The ET Foundation. However, entrants may request that their entries be returned at the conclusion of the Competition at their own expense. The ET Foundation is not responsible for any lost, late, or damaged entries. Winners shall be selected by a panel of independent judges chosen by the ET Foundation. If any category yields no entries deemed by the judges to address adequately the competition criteria, a prize will not be awarded in that category. Winners will be announced via a news release posted to the ET Foundation website and disseminated to the media. All taxes due on cash awards are the winner's responsibility. Entry into the Competition constitutes permission to use the entrant's design and his, her, or its name, likeness, and affiliation for promotional purposes without further compensation.

### Visit [www.etfdesign.org](http://www.etfdesign.org) for updates and additional information.



www.etfdesign.org

1000 N. Rand Road, Suite 214  
Wauconda, IL 60084 USA

## 2015 International Aluminum Extrusion Student Design Competition

# CALL FOR ENTRIES

Students: Enter for a chance  
to win a scholarship award!

**HURRY!**

ENTRIES ARE DUE **MARCH 30, 2015**

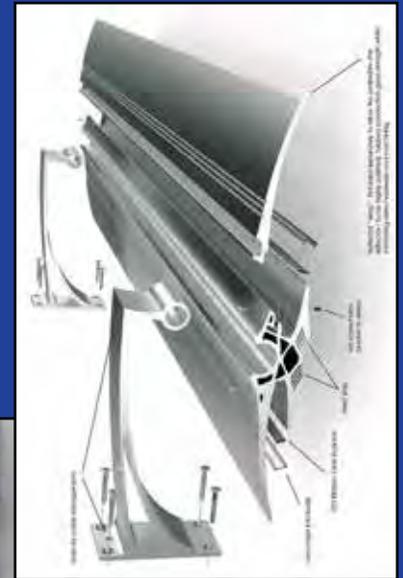
# CALL FOR STUDENT ENTRIES

## 2015 International Aluminum Extrusion Design Competition

# IDEAS TAKING SHAPE



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**Enter for a chance  
to win scholarships  
totaling \$8,500!**