



*Show your Talent and Creativity*

## 2018 ALUMINUM EXTRUSION DESIGN COMPETITION

*Designing to the Limit of Your Imagination!*

*Call for Entries!*

*Due by April 2, 2018*



Winners of the 2018 Aluminum Extrusion Design Competition – both Student and Professional Classes – will be announced at the Extrusion Design University-EDU '18 event scheduled for May 14–16, 2018 in Chicago, Illinois. This educational event, produced by the ET Foundation and the Aluminum Extruders Council, will offer more than 20 sessions targeted to designers, engineers, specifiers and other users of aluminum profiles, as well as an expo, networking and more.

In addition to the awards, winners will be offered complimentary attendance to EDU '18. Visit [www.aec.org/EDU18](http://www.aec.org/EDU18) for program details.

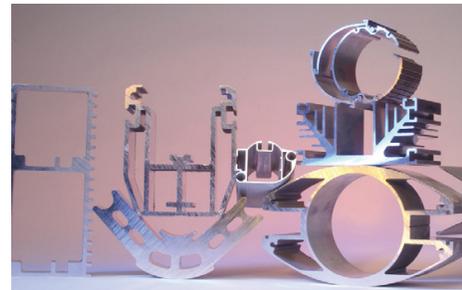
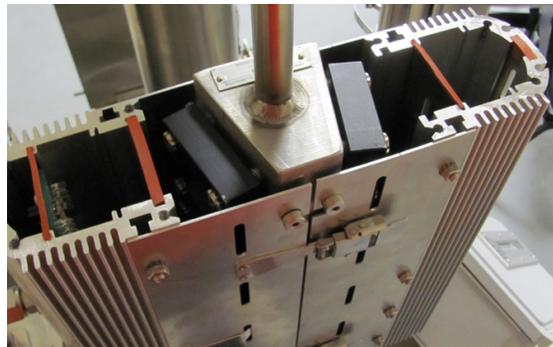
The Aluminum Extrusion Design Competition is intended to enlighten students and engineering, design, and architecture professionals about aluminum extrusions' superior advantages and many applications.

Enter your unique design in the **2018 Aluminum Extrusion Design Competition**. Show off your talent, ingenuity and creativity by designing components, systems and/or products that feature aluminum extrusions.



The ET Foundation is grateful to Bonnell Aluminum for sponsoring the 2018 Aluminum Extrusion Design Competition cash awards and student scholarships.

Visit the AEC website at [www.AEC.org](http://www.AEC.org) for a wealth of resources, including design tips, application examples and technical information to help you in your design journey.



## PROFESSIONAL CLASS

Individual designers and companies are eligible to enter the Design Competition. Aluminum extruders and their customers are encouraged to team up to enter their design in the competition. Prizes may be awarded for the following categories.

### Architectural/Structural

With almost limitless design flexibility, aluminum extrusions enable sophisticated design features and labor-saving functionality to be readily incorporated into building components, including:

- Balconies, canopies
- Decking, walkways
- Architectural components
- Modular building systems
- Office component systems  
*and more*

### Transportation

Design engineers are increasingly turning to aluminum extrusions to improve fuel economy, enhance performance and increase load-carrying capacity for applications such as:

- Automotive
- Aerospace
- Marine
- Rail and mass transit
- Truck/trailer
- Space vehicles

### Engineered/Industrial Products

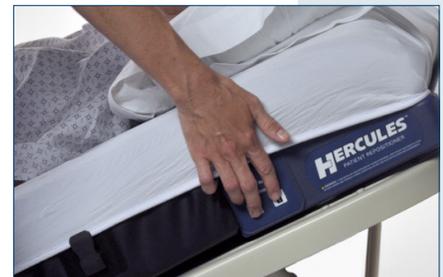
Aluminum extrusions are used in a variety of consumer and industrial components because of aluminum's many material and process advantages. This category may include:

- Sporting and recreational equipment
- Machinery and controls
- Heatsinks and insulating components
- Lighting and lighting equipment
- Electrical components
- Appliances
- Communications equipment  
*and more*

### Alternative Energy

Aluminum extrusions play a key role in both alternative and conventional energy generation and distribution systems, including:

- Solar power systems
- Building-integrated photovoltaic modules
- Wind power
- Hydro-electric power
- Geothermal energy systems



## CASH PRIZES AND STUDENT SCHOLARSHIP AWARDS

Your design could win money! Enter the 2018 Aluminum Extrusion Design Competition to compete for cash prizes and student scholarships totaling **\$20,000**.

Awards Sponsored by:



**One Grand Prize \$3,500** awarded across all categories and classes

### Professional Class

A First-Place Prize may be awarded for the best design in each of the four categories:

- |                             |         |
|-----------------------------|---------|
| • Structural /Architectural | \$2,000 |
| • Transportation            | \$2,000 |
| • Engineered Products       | \$2,000 |
| • Alternative Energy        | \$2,000 |

### Student Class

Scholarships totaling \$8,500 will be presented as cash awards to the best student designs submitted. Winning entries in the Student Class will be awarded in the following amounts:

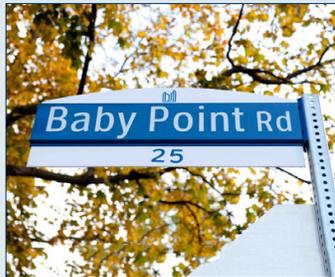
- |                            |         |
|----------------------------|---------|
| • First Place              | \$3,000 |
| • Second Place             | \$2,000 |
| • Third Place              | \$1,000 |
| • Sustainable Design Award | \$2,500 |

## STUDENT CLASS

Students have a unique way of looking at the world, which makes them well-qualified to offer innovative solutions to design challenges. Think beyond the ordinary to come up with new and resourceful uses for extruded aluminum!

Winning designs in the Student Class are presented with scholarships for First, Second and Third Place. A scholarship for special Sustainable Design Category is also available.

- Must currently be enrolled as a student in high school, college/university, technical school, or graduate school to be eligible.
- It is highly recommended to include a 3-D printed prototype of your component design
- Your extrusion design must fit within no larger than a 10-inch circle size to be considered for an award.
- Provide as much support material as possible to illustrate the design, its utility and practicality (i.e., art boards, images – jpeg preferred – drawings, full and complete explanation of how your entry meets the four judging criteria)
- Proper grammar and spelling is a must!



If your extrusion profile fits within this circle – you are one step closer to winning!

## COMPETITION RULES & JUDGING CRITERIA

*Entries are judged based on the following criteria:*

Designs must be original and make use of at least one extruded aluminum component. Multiple entries may be accepted. If any category yields no entries deemed by the judges to adequately address the competition's criteria, a prize will not be awarded in that category.

Winning entries will be those that best demonstrate the benefits of aluminum extrusions – whether by inventing a new product or improving an existing one – by achieving the following objectives:

### ***Creativity***

Innovative design, new application capability, methods to meet a new design challenge.

### ***Practicality***

Ease of fabrication and assembly, cost-effectiveness, use of extruded aluminum over other materials or processes.

### ***Product/Process Advantage***

Product/Process improvement: customization or improvement of extrusion processes, close tolerances, takes full advantage of extrusion capabilities to improve a product.

### ***Market Impact/Potential***

Design/product marketability and likelihood of market success.

*A panel of professionals from the aluminum extrusion industry, academia, and/or the trade press will judge the competition in spring 2018.*

For complete rules and criteria, visit [www.aec.org/CompetitionRules](http://www.aec.org/CompetitionRules)



## BONNELL ALUMINUM SUSTAINABLE DESIGN CHALLENGE

Humanitarian and environmental disasters and people with physical disabilities often inspire savvy designers and inventors with ideas to develop solutions to these challenges – and aluminum extrusions offer the perfect sustainable material.

The **Bonnell Aluminum Sustainable Design Challenge** accepts entries that, in addition to the four basic ET Foundation Design Competition criteria, best addresses societal and/or environmental challenges or 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.
- Interested students should indicate they are seeking consideration for the Sustainable Design Award on the Student Design Competition Entry Form.
- Explain in the written brief, how their entry meets the criteria.
- Examples of entries for the Sustainable Design Challenge Category include:
  - A refugee tent
  - A hydroponic gardening system
  - Water purifier
  - Assistive device for individuals with physical limitations.

*Your only limit is your imagination!*



STEP 1: Complete Your Information - please print legibly

ENTRY DUE APRIL 2, 2018

I AM A STUDENT STUDYING:

Design  Engineering  Architecture  Other \_\_\_\_\_

In addition, I am entering my design in the BONNELL ALUMINUM 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 \_\_\_\_\_
Class (junior, senior, etc.) \_\_\_\_\_ Student's Major \_\_\_\_\_

UNIVERSITY OR COLLEGE ATTENDING INFORMATION

School Name \_\_\_\_\_
Address \_\_\_\_\_
City \_\_\_\_\_ State/Province \_\_\_\_\_
Country \_\_\_\_\_ Zip/Postal Code \_\_\_\_\_

STUDENT'S FACULTY ADVISOR INFORMATION

Name \_\_\_\_\_
Address \_\_\_\_\_
City \_\_\_\_\_ State/Province \_\_\_\_\_
Country \_\_\_\_\_ Zip/Postal Code \_\_\_\_\_
Instructor's Email \_\_\_\_\_
Instructor's Phone \_\_\_\_\_

STEP 2: Explain Your Entry

Name of part and/or product \_\_\_\_\_
What is your product's use? \_\_\_\_\_
Alloy Specified \_\_\_\_\_
On this form or on a separate sheet of paper answer and explain the following questions:
Reason aluminum and this alloy was 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 (PDF or JPG files preferred)
 model
 descriptive literature
 audio-visual materials
 photos
 video
 3-D printed model
 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

Please enclose completed entry form with your supporting materials by April 2, 2018 and 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
email mail@etfoundation.org



COMPETITION RULES: Entries must be received by the ET Foundation at the address above by April 2, 2018. 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.

Any person signing the application on behalf of a company, firm, or organizational entity represents and warrants that he or she has authority to enter the competition on the company's behalf and bind the company to any and all competition rules. All entrants agree to be bound by any and all additional rules established by the ET Foundation for the competition.

Visit www.etfdesign.org for updates and additional information.



STEP 1: Complete Your Contact Information – please print legibly ENTRY DUE APRIL 2, 2018

CHOOSE ONE:

Designer  Extruder  Manufacturer  Other \_\_\_\_\_

Name \_\_\_\_\_ Title \_\_\_\_\_

Company \_\_\_\_\_ Email \_\_\_\_\_

Company Address \_\_\_\_\_ City \_\_\_\_\_

State/Province \_\_\_\_\_ Country \_\_\_\_\_ Zip/Postal Code \_\_\_\_\_

Telephone \_\_\_\_\_

STEP 2: Explain Your Entry

Name of part \_\_\_\_\_

Product that uses part \_\_\_\_\_

Is product in production? \_\_\_\_\_

Alloy Specified \_\_\_\_\_

Reason aluminum and this alloy was chosen \_\_\_\_\_

\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

Explain why this entry is an exceptional example of aluminum extrusion.  
(What objectives does it accomplish? Explain what judging criteria it 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 as you can to illustrate the design, its utility, and practicality.

- sample of part/product
- design drawings (PDF or JPG files preferred)
- 3-D model (printed)
- descriptive literature
- audio-visual materials
- photos
- video
- 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.

Signature \_\_\_\_\_

Date \_\_\_\_\_

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www.etfdesign.org

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

## 2018 INTERNATIONAL ALUMINUM EXTRUSION DESIGN COMPETITION

# Call for Entries

Open to professionals and students. Enter for a chance to win cash prizes and scholarship awards!

*Details Inside!*

ENTRIES ARE DUE APRIL 2, 2018



@AIEExtDesignCompetition



@AEC\_org



## Call for Entries

### 2018 ALUMINUM EXTRUSION DESIGN COMPETITION

*Designing the Limit of Your Imagination!*

*Sponsored by*



Open to Professionals and Students

\$20,000 in prize money and  
student scholarships

**Entries are due  
April 2, 2018**

