Call for Entries!
2019 ALUMINUM EXTRUSION DESIGN COMPETITION

Enter the 2019 Aluminum Extrusion Design Competition for a chance to win money for school by designing a product that incorporates aluminum extrusions! Look inside for more details.

Fast Facts

ELIGIBILITY
High school, undergraduate, graduate, trade and technical school students are eligible to enter the competition. You must be enrolled in and attending school to enter.

Individual and team submissions will be accepted. Each student on the team must complete an entry form.

IMPORTANT DATES
Competition Opens – Monday, August 6, 2018
Deadline to Enter – Monday, April 1, 2019

The entry deadline is April 1, 2019 – that doesn’t mean you can’t send your entry early! We understand that class schedules, Spring Break, mid-term exams and other commitments can sometimes affect your participation in the competition. Just be sure your entry arrives NO LATER THAN April 1, 2019.

ENTRIES
To enter, design a product that incorporates at least one extruded aluminum profile (custom designs are preferred, however products designs that incorporate standard shapes will also be considered). Enter using the form in this brochure or download the official entry form at www.ETFdesign.org. Be sure to review all of the information in this Call for Entries for guidelines and tips on creating a potential winning design.

WINNERS
Winning designs will be selected by a panel of aluminum extrusion industry professionals who will judge entries based on the competition criteria as outlined in this brochure. Winners will be announced in Spring 2019 and will be featured on the AEC website (www.aec.org), as well as promoted to design and trade press publications.

SCHOLARSHIP AWARDS
Student scholarships in the form of cash awards will be presented:

• 1st Place - $3,000
• 2nd Place - $2,000
• 3rd Place - $1,000
• Sustainable Design - $2,500

Prizes will be split between team members for team submissions that win.

CONTACT INFORMATION
For questions that are not addressed in this brochure or on the Design Competition website at www.ETFdesign.org, contact the ET Foundation at mail@ETFoundation.org.

Sponsored by

BONNELL ALUMINUM
Your Idea Taking Shape
Aluminum extrusions are found all around us – from buildings and transportation to consumer products and machinery. Aluminum extrusion is often the most functional, cost-effective and quickest path between function and form. 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
• “Build in” functionality and an attractive appearance that can make the product easier to sell
• Help support sustainability goals through aluminum’s recyclability benefits

Aluminum Extrusion:
Alloy + Geometry = Performance

The right shape, utilizing the right alloy, can then be enhanced and perfected through additional fabrication and finishing to yield an effective product solution—allowing you to design to the limits of your imagination!
**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.

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

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**BONNELL ALUMINUM SUSTAINABLE DESIGN CHALLENGE**

Humanitarian and environmental disasters and people with physical disabilities often inspire savvy designers and inventors 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 by checking the box on the Entry Form.
- Explain in the written brief, how the entry meets the criteria.
- Examples of entries for the Sustainable Design Challenge Category include:
  - Portable refugee tent
  - Hydroponic gardening system
  - Assistive device for individuals with physical limitations.

*Your only limit is your imagination!*
Ten Eligibility Tips for a Winning Design

In order to ensure your best chance of winning the 2019 Aluminum Extrusion Design Competition, it is highly recommended that you conduct the following minimum research and take these tips into consideration prior to starting your project.

1. Visit the Aluminum Extruders Council’s website at www.aec.org to review the following sections and materials:
   - Applications to better understand where and how extrusions are used
   - Extrusion Design to understand the manufacturing processes and better understand practical limitations for designing extrusions.
   - Sustainability to better understand the environmental aspects associated with using extrusions.

2. Visit the AEC YouTube channel (Youtube.com/aec) to view the educational design webinars.

3. Download and read “Designing to the Limits of Your Imagination” PDF in the Design Competition/For Students section.

4. Demonstrate that the knowledge gained from viewing the educational information noted above was carefully incorporated into your design.

5. Size matters. See the shaded circle to the left in this brochure to make sure your shape fits within the 10 inch circle. (no larger). If your profile doesn’t fit, it won’t win!

6. Presentation is important. Winning designs will demonstrate innovative products made with extrusions, as well as the use of innovative extrusion designs.

7. Extra consideration will be given to entries that supply a 3D printed sample or other forms of prototyping of your profile.

8. Do your research: Is your entry a new idea or has it been done many times before? Have you considered the market and performance research to support your product development?

9. Provide a variety of supporting materials (explanation, drawings, model, audio-visual, etc.). Include as much detail as possible to explain your design and why it should win.

10. Make certain your entry adequately addresses all four of the judging criteria and is supported in your presentation materials.

www.aec.org

If you would like to have an AEC member representative come to your school to give a presentation to your class, we can help arrange that! Contact AEC at mail@aec.org for more information or use the “Contact Us” form on the AEC website at www.aec.org.
2019 ALUMINUM EXTRUSION DESIGN COMPETITION
STUDENT CLASS
OFFICIAL ENTRY FORM & RULES

STEP 1: Complete Your Information – please print legibly

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 ________

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. ____________________________

STEP 3: Mail Your Entry

Please enclose completed entry form with your supporting materials by April 1, 2019 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

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

COMPETITION RULES: Entries must be received by the ET Foundation® at the address above by April 2, 2019. 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.
Call for Entries

2019 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 1, 2019

@AlExtDesignCompetition @AEC_org