DIAMOND AWARDS For Engineering Excellence

BUCKLEY & COMPANY INC. REBUILDING PHILADELPHIA ACEC/PA

American Council of Engineering Companies of Pennsylvania

2025 CALL FOR ENTRIES

AERO

2024 Grand Conceptor Winner

Alfred Benesch & Company I-95 Bridge Collapse Emergency Repairs AECOM Technical Services, Inc. Virtual Tool for Innovative Engagement (aecomviz)

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The American Council of Engineering Companies of Pennsylvania's (ACEC/ PA's) Annual Diamond Awards for Engineering Excellence recognizes engineering firms for projects that demonstrate a high degree of achievement, value and innovation. The program is open to consulting engineering firms practicing in Pennsylvania. Dues must be paid in full prior to September 30, 2024, to participate. Non-ACEC/PA members must call the ACEC/PA office at (800) 651-1946 ext. 111 for more details.

Diamond Awards for Engineering Excellence entries are accepted in one of 14 project categories:

- Studies, research and consulting engineering services
- Building/technology systems
- Structural systems
- Surveying and mapping technology
- Environmental
- Waste and stormwater
- Water resource

- Transportation
- Special projects
- Small projects
- Energy
- Industrial and manufacturing processes and facilities
- Construction Management/Construction Inspection
- Medium Projects

The winner of each category is then eligible to participate in the ACEC National competition.

A distinguished panel of judges is convened to critique the projects. These professionals have backgrounds in engineering, architecture, state and federal government, media, academia, and the military.

Projects from across the globe are rated based on uniqueness and originality; future value to the engineering profession and perception by the public; social, economic and sustainable development considerations; complexity; and successful fulfillment of client/owner needs, including schedule and budget.

A special award — **The Best Panel Design Award** for Communication of Engineering Excellence — recognizes the best photographic display panel submitted as an entry in the Diamond Awards for Engineering Excellence competition. The objective of the award is to promote communication of engineering excellence by creating displays that are both visually exciting and stimulating to read, as well as promoting the achievements of the engineering profession.

*A company that submits a Pennsylvania-based project will receive five bonus points.

NOTE: ACEC/PA is committed to being a sustainable organization. All award submission materials will be electronic. The only exception is the photographic display panel. Please see Page 8 for more information.



HDR Engineering Inc.

Fern Hollow Bridge Emergency Replacement Project GPD Group 2020 Large Diameter Sewer Rehabilitation

ELIGIBILITY

Any engineering or surveying firm that is a member in good standing with ACEC/PA is eligible to enter the awards program. Non-ACEC/ PA members may call the ACEC/ PA office at (800) 651-1946 ext. 111 for more details.

McCormick Taylor, Inc. Pollinator Habitat Pilot Project

General Criteria



Research and Studies (Category A) or Surveying and Mapping projects (Category D) must have been publicly disclosed by the client between November 1, 2022 to October 31, 2024. Construction of projects (Categories B through N, except for Category D) must have been substantially completed and ready for use between between November 1, 2022 to October 31, 2024.



ACEC/PA reserves the right to determine the eligibility and category classification for all entries. A project can only be submitted in one category.

(Please note: All submission materials will be duplicated as-is and used for promotional purposes.) Each entry must consist of the following three components:

- Official electronic entry
- Photographic display panel
- Entry fee payment

(See "Preparing Your Entry for the 2025 Diamond Awards for Engineering Excellence" on <u>Page 6</u>.)

Please read the requirements thoroughly. Noncompliance with the rules will disqualify an entry.



ACEC/PA will not be responsible for any damage or loss to an entrant's photographic display panel.

JUDGING

Entries will be judged based on:

- Overall engineering excellence in each of the 14 categories listed on Page 7.
- The work performed by the entering firm only.
- The rating guidelines listed below.

Winners will be notified shortly after the judging is completed.

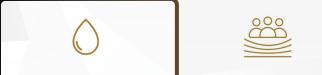
AWARDS

The panel of judges will select 15 awards at its discretion – 14 category winners and one Grand Conceptor. The Grand Conceptor will be announced at the gala as the top winner selected by the judges, whose decisions on all awards are final. Awards will only be presented to the clients/owners and entering firms submitting the winning entries.

IMPORTANT INFORMATION FOR ENTRANTS

In conjunction with an ACEC goal to promote the essentiality of engineering, we strongly encourage that all project entries, no matter the category, also highlight an emphasis on the project's direct benefits to the public.

Examples include:



Water Resources The number of gallons of clean water that will result from the project and the potential impact.





Climate Change Examples of how much the project will reduce tons of carbon into the atmosphere, thus also reducing a project's footprint.



Transportation

Examples of reduced congestion and improved safety; improve previously restricted community access; and reduced commuting time.



American Council of Engineering Companies of Pennsylvania



RATING GUIDELINES FOR JUDGING

1.	Uniqueness and/or innovative applications of new or existing techniques	20%
2.	Future value to the engineering profession and perception by the public	20%
3.	Social, economic and sustainable development considerations	20%
4.	Complexity	20%
5.	Successful fulfillment of client/owner needs	20%
	Total	100%

*A company that submits a Pennsylvania-based project will receive five bonus points.

RATING GUIDELINE DEFINITIONS

Uniqueness and/or Innovative Applications of New or Existing Techniques:

- Does the entry demonstrate the use of a new science or a breakthrough in the general knowledge of engineering?
- Does the entry represent a unique application of new or existing technology, techniques, materials or equipment?

2 Future Value to the Engineering Profession and Enhanced Public Awareness/ Enthusiasm of the Role of Engineering:

- Will the entry redefine current engineering thinking?
- Does the entrant's project increase the public awareness/ enthusiasm about the role of engineering in their everyday lives?

Social, Economic and Sustainable Development Considerations:

- Do the solutions identified produce secondary benefits of value to the community/ environment?
- Does the entrant's approach provide society with social, economic or sustainable development benefits?
- Does the entrant's contribution to the project improve the health, safety, or welfare of the public or affected environment?

Complexity:

- Did the entry successfully address complex criteria or unique problems?
- Were extraordinary problems of site, location, hazardous conditions, project requirements or similar elements present?
- Did the entry require the use of out-ofthe-ordinary technology or ingenuity for achievement of the project's goals?

5 Successful Fulfillment of Client/Owner Needs:

- Did the engineer or entrant successfully engage the client/owner in the overall project development process?
- Was it an economical and cost-effective solution?
- How did the final cost relate to the original budget estimate?
- How closely does the entrant's solution meet the total goals of the client/owner?
- Did the entrant meet the client's time schedule?



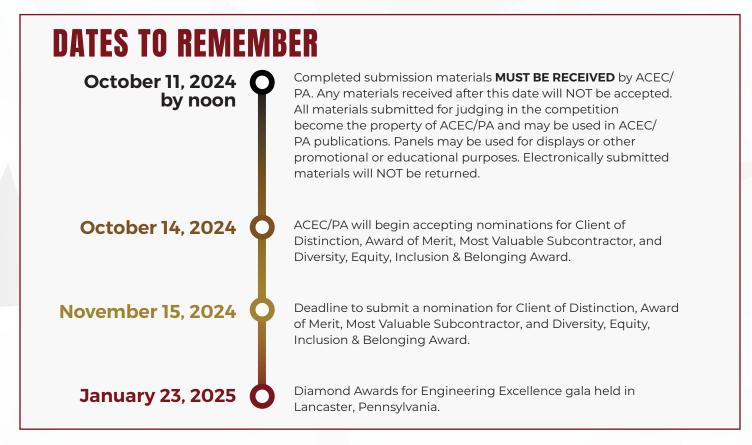
PREPARING YOUR ENTRY

This section describes all required submission materials for entering the 2025 ACEC/PA Diamond Awards competition. All materials must be submitted exactly as designated below. Digital files must be PC compatible and appropriate to the information being submitted (i.e., Microsoft Word for text, JPEGs for photos or other images, Adobe PDFs, etc.).

If the submission does not meet the requirements listed, it will be disqualified.

If any part of an entry does not meet the requirements listed, that portion of the entry may not be presented for judging.

Extraneous materials will be discarded prior to the judging. Please follow the guidelines; no extra pictures and no extra materials are permitted. No reference to other awards is permitted in your submitted materials.



SUBMISSION REQUIREMENTS

The following components must be submitted for each 2025 ACEC/PA Diamond Awards for Engineering Excellence competition entry:

- 1. Member in good standing with ACEC/PA
- 2. Official electronic entry
- 3. Photographic display panel
- 4. Entry fee payment

NOTE: No QR Codes or embedded links are permitted in any portion of an award submission.



CALL FOR ENTRIES - CATEGORIES

CATEGORY A: Studies, Research and Consulting

Nondesign services, projects not involving the preparation of construction documents consisting of but not limited to the following types of projects:

- New products, materials and technologies
- New products, materials and technologies
- Expert testimony
- Basic research and studies
- Computer/software technology
- Technical papers
- Public outreach/involvement
- Water conservation
- Security plans
- Project feasibility studies/ economic/risk
- Value engineering

CATEGORY B: Building/Technology Systems

- Mechanical/electrical/ plumbing
- Computer/technology
- Communications
- Acoustics
- Software systems
- Sustainability or carbon neutrality
- Efficiency certification standards, e.g., LEED
- Energy efficiency- new and retrofit
- Secure facilities (military, research, correctional)

CATEGORY C: Structural Systems

- Foundations
- Tunnels
- Buildings
- Seismic design
- Towers
- Bridges
- Stadiums

CATEGORY D: Surveying and Mapping Technology

Diamond Awards For Engineering Excellence

- Geometrics, ALTA, land title and rights surveys
- Control, GPS, monitoring or construction surveying
- Survey mapping, GIS/LIS photogrammetry

CATEGORY E: Environmental

- Hazardous waste
- Solid waste
- Restoration/reclamation/ remediation
- Air quality
- Noise
- Recycling
- Waste pond management
- Carbon sequestration and trading
- Mitigation

CATEGORY F: Waste and Stormwater

- Wastewater collection/ treatment and disposal
- Residuals management and reuse
- Graywater systems
- CSOs
- Mine tailings
- Agricultural
- Stormwater management
- Erosion control

CATEGORY G: Water Resources

- Hydraulics, hydrology
- Surface and groundwater supply development
- ♦ Treatment
- Transmission, distribution and storage
- Watershed management
- Water use reduction
- Flood risk management
- Climate adaptation
- Coastal and ecosystem restoration
- Locks/dams/water control structures
- Irrigation

CATEGORY H: Transportation

- Highways
- 🔶 Rail
- Airports
- Marine/ports
- Public transit
- Intermodal facilities

CATEGORY I: Special Projects

- Safety and security
- Corrosion protection/cathodic protection
- Program management

CATEGORY I: Special Projects

(continued)

- Land development
- Trenchless technologies/ directional boring
- Recreational facilities
- Subsurface engineering

CATEGORY J: Small Projects

 Total project construction budget does not exceed \$2.5 million (At the entrant's discretion, except for entries in Category A, projects under \$2.5 million are not limited to this category.)

CATEGORY K: Energy

- Transmission and distribution
- Power generation
- Renewable energy
- Cogeneration
- Energy storage technologies
- Energy usage reduction programs
- Demand-side management

CATEGORY L: Industrial and Manufacturing Processes and Facilities

- Petrochemical
- Biotech

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- Manufacturing
- Heavy industry
- Industrial waste

CATEGORY M:

Materials handling

Construction Management/

Construction Inspection*

Non-design category

exceed \$10 million.

All markets qualify

CATEGORY N:

Medium Projects*

Mining, metallurgy, mineralogy

Total project construction budget

is above \$2.5 million but does not

*Winners of these categories may still

in one of ACEC's existing categories.

submit to the national competition but

OFFICIAL ELECTRONIC ENTRY

All project information shall be submitted electronically. Each document must be uploaded separately through ACEC/ PA's Awards Submittal Portal. Additional materials may be required for entry in the ACEC National competition if selected to enter. The electronic entry must contain the following items:

1. ELECTRONIC PROJECT SUBMISSION FORM

Located on the ACEC National website — <u>https://eea.acec.org/pennsylvania</u>. Information provided must be accurate and complete. Project owner and submitting firm's client may be different. Name your project exactly as you would like it to appear on the projection screen, in the program book, and etched on the award, but limit it to 45 characters. Ensure everything is correctly spelled and each entity is accurately represented as they are to appear in formal print. Specifications: PDF format.

The original completed entry form must be signed by both the entrant and the client/owner (senior executives/officials), stating that the submitted project was substantially completed and ready for use between November 1, 2022 and October 31, 2024. Electronic signatures are accepted.

The following project information must be uploaded individually and included with your submittal.

2. CLIENT/OWNER LETTER (one page max.)

This is an endorsement and/or release letter addressed to ACEC/PA with the signature of the client on client and/or owner letterhead. Specifications: PDF format.

3. EXECUTIVE SUMMARY (250 words max.)

Overview of project. Describe the problem and solution in layman's terms. Project title and entry category must appear at the top of the page.

Specifications: 8.5" x 11"; 1" side margins; single- spaced text; 12 pt. minimum size font; PDF format.

4. PROJECT DESCRIPTION (three pages max.)

Tell the story of the project. Address items a, b, c, and d as listed below. Project title, entry category and page number must appear at the top of each page. Entrants may use text, photos, graphics or charts as needed. Do not reference other awards the project has won.

Specifications: 8.5" x 11"; 1" side margins; single-spaced text; 12 pt. minimum size font; PDF format.

Text must include all the following information, including budget information and summary:

a) ROLE OF ENTRANT'S FIRM in the project

b) ROLE OF OTHER CONSULTANTS participating in the project.

c) ENTRANT'S CONTRIBUTION TO THE PROJECT:

A brief description of the entrant's contribution addressing each of the following Rating Guidelines (refer to "Rating Guideline Definitions" on Page 5 for detailed rating and judging information):

- Uniqueness and/or innovative application of new or existing techniques.
- Future value to the engineering profession and enhanced public awareness/ enthusiasm of the role of engineering.
- Social, economic and sustainable development considerations.
- Complexity.
- Successful fulfillment of client/owner needs.

Include total project construction budget cost, total project construction actual cost, entrant's portion of the total project construction budget cost, entrant's portion of the total project construction actual cost, and project scheduled and actual dates of completion (as indicated on the electronic project submission form). Reminder: These costs are not Engineering Fees.

d) SCRIPT/PROGRAM SUMMARY (150 words max):

This summary will provide the basis for all ACEC/PA publicity of the project, will be used verbatim in the program book and will be used to create spoken scripts for winning projects. Please be as clear and simple as possible, as the intended audience is the general public. No abbreviations can be used without clarification of the abbreviation first.



McCormick Taylor, Inc. Pymatuning Spillway Trail/

Messerall Truss Project

NOTE: If key participants or additional firms are listed within any part of the submission, the submission must list the legal company name, which can be found on the <u>ACEC/PA website</u>. This is for ACEC/PA members only.

WSP USA Inc. Broad Street Bridge Reconstruction

5. KEY PARTICIPANTS

List the key participants on the project including firm name, address, phone number, website and e-mail address of each participant. Include other engineers, architects and designers significantly involved in the project.

Specifications: 8.5" x 11"; Excel file.

6. PHOTOS OR GRAPHICS

Six (6) different photos or graphics (one per page) with captions describing the subject matter (refer to "Image Guidelines" below). Captions shall begin with: Photo 1, Photo 2, etc.

Specifications: JPEG file; RGB format; High Resolution (300 dpi).

Photo Captions: Once photos are uploaded, type in the captions in the small box under each photo on the online submittal site. No text is permitted on the photos other than the cover slide.

IMAGE GUIDELINES:

Because the images could be projected on a large screen during the gala, it is very important to submit sharp, highquality, high-resolution images. Three of the photographs must show the completed project and provide the highest level of visual impact for publicity. Three of the photographs must display the planning, startup and/or construction phases of the project.

7. PHOTOGRAPHIC DISPLAY PANEL

Small-size copy of the photographic display panel.

Specifications: JPEG file; RGB format; High Resolution (300 dpi).

8. SUPPLEMENTARY REPORT

(Category A submissions only) Include a supplementary report containing the findings portrayed with text, graphs or photos, as needed.

NOTE: ACEC/PA member dues must be paid in full by September 30, 2024. Entry fee of \$300 and photographic display panel must be in possession of ACEC/PA by noon on October 11, 2024.

Greenman-Pedersen, Inc. Rehabilitation of SR 92 Section 750

Johnson, Mirmiran & Thompson, Inc. Monongahela Subaqueous Interceptor CIPP Rehabilitation

PHOTOGRAPHIC DISPLAY PANEL

Display Panel is a key part of the project submittal and the text and photos should demonstrate the challenges, solutions, innovation, complexity and unique aspects of key project elements. The panel should be prepared with high-quality photos and graphics and with text as described below.

Photographic panel requirements:

1. PANEL SIZE:

30" x 30" square, with a matte finish, laminated front and back as follows:

a. Front lamination thickness: 5 mil

- b. Back lamination thickness: 5 mil
- c. Panel stock thickness before lamination: no more than 5-6 mil
- d. Total panel (with lamination) thickness: 15-16 mil

HOW YOUR FIRM Can benefit

Firms of all sizes and disciplines have recognized the public relations and marketing value of participation in the ACEC/PA Diamond Awards for Engineering Excellence program. The activities of these firms have underscored the direct business promotion thatfirms have achieved and can be enhanced through feature stories, brochures and firm newsletters.

The program includes projects that provide a benefit by the solutions you have created. Past participants have reported the recognition received contributed directly to obtaining new project assignments — a win/win prospect for every entry.

NOTE: Framed or mounted panels will NOT be accepted. Do NOT mount panel on foam-core board or any other solid surface.

NOTE: If you need help finding a printer who can follow these specifications, contact Carrie Doyle at Keystone Displays: 717-612-0340 or carrie@keystonedisplays. com. They are the company ACEC national uses as well and they are located in Central Pennsylvania.





Johnson, Mirmiran & Thompson, Inc. SR 4008 Five Points Roundabout

2. PHOTOS/GRAPHICS:

Maximum of six (6) photos and/ or graphics shall be used on the panel. Each image shall be a minimum of 7" x 5" or 35 square inches in area. A background photo is not considered a photograph.

3. TEXT/FONTS:

Panel text may not exceed 250 words total, not including captions. Font sizes: 32 pt. minimum font for text or descriptions; 28 pt. minimum font for captions and graphics.

4. REQUIRED ELEMENTS:

The front of the panel shall also include the <u>ACEC/PA logo</u>, title and location of the project or study, client/owner's name and location, and entering firm's name and location (minimum 32 pt. font size).

5. BACK OF PANEL LABEL:

Add a label to the back of the panel on the lower right hand side with the name of the entrant's firm, the firm address, the project name and the entry category.

SHIPPING INFORMATION

Please email Sarah Babski at <u>sbabski@acecpa.org</u> when you are ready to ship the panel to provide approximate date of arrival and/or tracking information. Panels being dropped off at the ACEC/PA office in person should be prearranged.

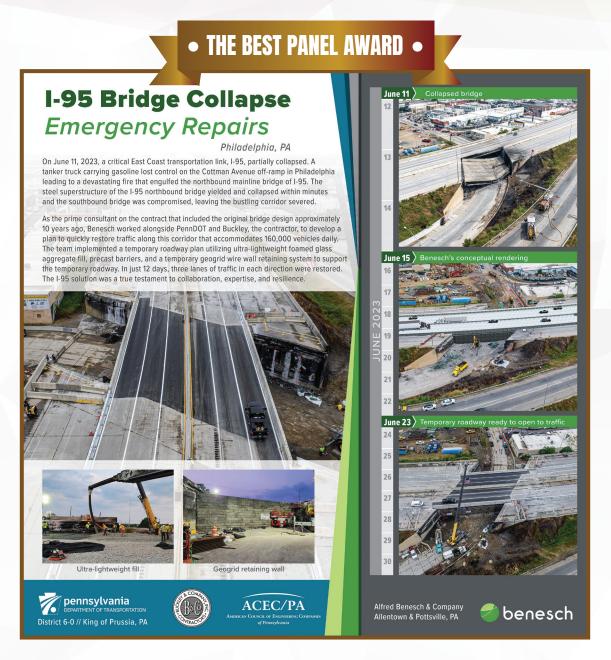
Ship photographic display panel to:

ACEC/PA Attn: Sarah Babski 800 N. Third St., Suite 301 Harrisburg, PA 17102

NOTE: All photographic display panels must be collected immediately following the gala. If a member of your firm does not attend the gala, ACEC/PA will store your panel in its office until February 21, 2025.



ACEC/PA will have a special award for the Best Panel. This special award recognizes the best photographic display panel submitted as an entry in the Diamond Awards for Engineering Excellence.



The annual Diamond Awards for Engineering Excellence celebrates, with pride and elegance, the outstanding achievements of the engineering profession.

The Best Panel Award is given to the firm that creates the best display panel. The objective of the award is to promote the communication of engineering excellence by creating displays that are both visually exciting and stimulating to read, as well as promoting the achievements of the engineering profession.

A panel of communication professionals will determine the winner of the award.

All panels will be eligible. Non-ACEC/PA members must call the ACEC/PA office for further details.

Remember, the deadline to enter the 2025 competition is just around the corner. All entries must be received in the ACEC/PA office by **noon on October 11, 2024.**



SUBMISSION CHECKLIST

OFFICIAL PROJECT SUBMISSION ENTRY FORM

- ☑ Have ACEC/PA membership dues been paid in full?
- ☑ Does the project completion or disclosure date fall within the range of November 1, 2022 to October 31, 2024?

DO I HAVE ENTRY FEE PAYMENT OF \$300?

- ☑ Please mail a check to the ACEC/PA office or to pay with a credit card, contact Sarah Babski at sbabski@acecpa.com.
- CLIENT/OWNER LETTER endorsement/release letter with signature of the client/owner on organization letterhead must contain all the elements from the <u>template</u>?
- **EXECUTIVE SUMMARY** limited to 250 words?
- PROJECT DESCRIPTION limited to three pages? Specifications: PDF; 8.5" x 11"; 1" side margins; single- spaced text; 12 pt. font size?

(Please note: All submission materials will be duplicated as-is and be used for promotional purposes.)

KEY PARTICIPANTS on the project?

NOTE: If key participant or additional firms are listed within any part of the submission, the submission

must list the legal company name, which can be found on the ACEC/PA website. This is for ACEC/PA members only and found <u>here</u>.

- **PHOTOGRAPHIC DISPLAY PANEL** was shipped to the ACEC/PA office?
- **SUPPLEMENTARY REPORT** included if this is a Category A submission?

PHOTOS

- Did I include six different color photos or graphics? Do they have captions that are not embedded?
- ☑ Did I include three photographs of the planning, startup and/or construction phase of the project?
- ☑ Did I include three photographs of the completed project?

For questions, please contact Sarah Babski at ACEC/PA at (800) 651-1946 ext. 111 or sbabski@acecpa.org.

