

ACI FOUNDATION

**2024
ANNUAL
REPORT**



FROM OUR EXECUTIVE DIRECTOR AND BOARD OF TRUSTEES CHAIR

Hello Friends!

This may be your first time reading about the ACI Foundation, or you might be a long-time advocate, a dedicated donor, a steadfast volunteer in our programs and councils, or a beneficiary of one of our programs. You know that ACI is a technical and educational society dedicated to improving the design, construction, maintenance, and repair of concrete structures. In addition, the Institute is one of the world's largest resources for consensus-based concrete knowledge. As a member of ACI, your annual dues provide you access to all ACI University webinars and on-demand courses, the Institute's 200+ practices (including all ACI guides and reports), and symposium volumes, as well as to its amazing community of volunteers, who are dedicated to the very best use of concrete.

The ACI Foundation's mission and objectives complement ACI's, and through its network of donors and volunteers, it funnels people, innovation, and research to ACI. Donations to the ACI Foundation are contributions over and above ACI dues payments, making it possible to achieve these broad outcomes and amplify the work ACI does, all toward building the future of the concrete industry. Since we formally began fundraising in 2018, our donors have grown to nearly 700 individuals and companies, which is increasing daily. With their help, we moved the mark in 2024 by helping 44 students fulfill their goals of joining the concrete industry, providing incentives to get involved in the ACI community through our fellowships and scholarships, and funding 16 technical projects that will advance the knowledge and use of concrete.

To our donors, our 75-person-strong volunteer workforce, the ACI Foundation Trustees, the Concrete Research Council, the Concrete Innovation Council, the Scholarship Council, our technical reviewers, the mentors who help guide our fellowship awardees, and our Development Committee— thank you for your devotion to our industry, to ACI, and to our cause!

All our best to you,

Ann Masek, Executive Director



Jeffrey Coleman, Board of Trustees Chair



2024 FINANCIAL SUMMARY

Revenue

Contributions	\$2,245,475
Other Program Revenue	\$34,050
Interest	\$376,200
TOTAL REVENUE	\$2,655,725

Expenses

Total Program Support	\$1,515,025
Total Fundraising Support	\$159,554
Total Administrative Support	\$166,016
TOTAL EXPENSES	\$1,840,595

BUILDING THE FUTURE

Habibelrahman Hassan was the ACI Foundation 2023-2024 MENA Student Excellence Award recipient. He is currently pursuing a master's degree in civil engineering at the American University of Sharjah.

This award has been a significant milestone in his career, providing not only financial support but also valuable networking opportunities, mentorship, and access to industry leaders. Attending the ACI Concrete Convention in the U.S. deepened his connection to the ACI community.

This experience inspired him to delve into innovative fields such as three-dimensional concrete printing, aiming to integrate advanced technology into civil engineering.

He is passionate about contributing to the civil engineering field through sustainable practices and hopes to inspire future engineers with the support of ACI, reflecting on the transformative influence the award has had on his career path.



SUPPORT

44 Students awarded scholarships for concrete and engineering education

4 Brand-new student awards created for more educational opportunities for students within the community

16 New and cutting-edge research projects were granted funds to aid in the advancement of the concrete industry, enhancing brand reliability.

104 Veterans supported through rebates for ACI certification

ACKNOWLEDGEMENT OF SUPPORT FOR SUPPLEMENTARY PROGRAMS

ACI Personal Awards

Supporting the formal recognition by ACI of notable individuals within our industry.

NEW! MICHEL BAKHOUM INTERNATIONAL COLLABORATION AWARD

This award was established by the initiative and naming financial support of Rami Awad, Taha Dhaouadi, Mohamed Farouk, Raad Hamood, Dr. Adel Labib, Kačičnik Family, Nadja Kačičnik, Dr. George Morcoux, Dr. Sami Rizkalla, Walid Sabbah, Sherif Younan, Family and Friends of Late Prof. Dr. Michel Bakhoum, and e.Construct, Structural Engineering Consultants, Dubai, Omaha, Orlando, and Raleigh. Contributions from 11 Countries: USA, Canada, Egypt, France, Germany, KSA, Kuwait, Morocco, Slovenia, Tunis, United Arab Emirates (UAE).

ACI 123 Student Researchers

Supporting recognition of excellence in concrete research presentations at ACI conventions with monetary awards.

ACI 123 ORAL PRESENTATION AWARD

Donor: Giatec Scientific, Inc.

Student winners: 1st place–Monica Amaral; 2nd place–J. Alberto Castillo; 3rd place–Aakriti Khadka

ACI 123 POSTER SESSION AWARD

Donor: Pivot Engineers

Student winners: 1st place–Kylee Rux; 2nd place–J. Anita Zhang; 3rd place–Eunice Mendes Rodrigues Farias Mello

2024-2025 FELLOWSHIP RECIPIENTS

ACI Foundation Student Fellowships are offered to high-potential students in concrete-related studies who are endorsed by an ACI member. The purpose of the Student Fellowship Program is to identify, attract, and develop outstanding professionals for productive careers in the concrete field. Learn more about ACI Foundation Fellowship and Scholarship Programs by visiting our website: <https://www.acifoundation.org/scholarships.aspx>.

- **ACI Foundation Concrete Materials Fellowship:** Nima Khodadadi, University of Miami
- **ACI Foundation Concrete Practitioner Fellowship:** Grant Harrington, Oklahoma State University
- **ACI Foundation Future Concrete Industry Leader Fellowship:** Artem Egorov, University of Florida
- **ACI Foundation Fellowship:** Mohammad Albashiti, Clemson University
- **ACI Foundation Fellowship:** Monjee Almustafa, McMaster University
- **ACI Foundation Fellowship:** Will Pahl, University of Saskatchewan
- **ACI Foundation Fellowship:** Sofiane Amroun, University of Miami
- **ACI Foundation Fellowship:** Balaram Luitel, The University of Texas at Arlington
- **ACI Foundation Fellowship:** Jacob Yager, Queen's University
- **ACI Foundation Fellowship:** Abdulrahman Salah, University of Houston
- **ACI Foundation Fellowship:** Brittany Multer, The Ohio State University
- **ACI Foundation Fellowship:** Yoonjung Han, Texas A&M University
- **ACI Foundation Fellowship:** Benjamin (Bo) Rider, Georgia Institute of Technology
- **ACI Middle East Fellowship:** Mahmoud Higazey, King Saud University
- **ACI Presidents' Fellowship:** Ann Albright, Virginia Polytechnic Institute and State University
- **AOE Fellowship:** Matthew Pasemann, Texas State University
- **Baker Student Fellowship:** Austin Mizen, Bowling Green University
- **Baker Student Fellowship:** Abigail Erich, The Pennsylvania State University
- **Barbara S. and W. Calvin McCall Carolinas Fellowship:** Issac Oyawoye, University of North Carolina at Charlotte
- **Burg-Coleman Iowa State '77 Fellowship:** Md. Lutfor Rahman, Iowa State University
- **Charles Pankow Foundation Student Fellowship:** Camille Davis, University of Louisville
- **Don Marks Memorial Fellowship:** Nicholas Barrio, Texas A&M University
- **Elmer Baker Fellowship:** Merrill (Kaid) Nygren, Texas State University
- **JoAnne K. & Cecil L. Jones Carolinas Fellowship:** Aakriti Khadka, North Carolina State University
- **Nicolas F. Maloof Jr. GA Chapter Fellowship:** Segun Osibodu, Auburn University
- **Robert F. Mast Memorial Fellowship:** Tyler Wood, South Dakota State University
- **Ronald G. Burg Leadership Fellowship:** Thomas Carnes, Virginia Polytechnic Institute and State University
- **S.P. Shah Fellowship:** Hossein Kabir, University of Illinois Urbana Champaign
- **Tribute to the Founders Fellowship:** Catherine Lucero, Oregon State University



2024-2025 SCHOLARSHIP RECIPIENTS

Funded through generous donations, ACI Foundation helps offset college costs by offering a wide variety of college graduate and undergraduate scholarships and fellowships. Recipients are awarded a \$5,000 educational stipend for tuition, residence, books, and materials. In the 2024-2025 cycle, 15 students were awarded \$75,000.

- **ACI Foundation Scholarship:** Amjad Diab, The University of Texas at Austin
- **ACI Foundation Scholarship:** Bayezid Baten, University of Illinois Urbana Champaign
- **ACI Foundation Scholarship:** Joel Freitas, University of Massachusetts Amherst
- **ACI 201 Undergraduate Durability Scholarship:** Dennis Brickl, University of Wisconsin Platteville
- **Bernard Erlin Memorial Scholarship:** Tu-Nam Nguyen, Georgia Institute of Technology
- **Bertold E. Weinberg Scholarship:** Luca Galli, University of Miami
- **Katharine & Bryant Mather Scholarship:** James Stewart, University of Arkansas, Bell Engineering Center
- **Nick Bada – ACI Ontario Chapter Graduate Scholarship:** Mehran Aziminezhad, Lakehead University
- **Master Builders Solutions Concrete Materials:** Jackson Kaszas, Rutgers University
- **Richard D. Stehly Memorial Scholarship:** Kenan Johnson, Saint Louis University
- **Roger S. Johnston Memorial Scholarship:** Maxwell Edman, University of Illinois at Chicago
- **Schwing America Scholarship:** Rebecca Rasmussen, Brigham Young University
- **Stewart C. Watson Memorial Scholarship:** Md Shahjalal, University of Calgary
- **W. Gene Corley Scholarship:** Sherryen Mutoka, University of Notre Dame

INNOVATION & KNOWLEDGE SHARING

The ACI Foundation's Concrete Innovation Council (CIC) gathered in Santa Fe, NM to discuss technology and innovation at the 2024 Technology Forum (now named the Concrete Innovation Forum). The event took place May 14-16, 2024, at the Hilton Santa Fe Historic Plaza. The ACI Foundation Technology Forum is an innovation-focused educational and networking event for concrete professionals.

The 2024 Technology Forum included presentations that highlighted the use of next generation AI, advances in durability testing, and innovative solutions using the new ACI 323 Low-Carbon Concrete Code. Technology showcases ranged from Creare's Instant Air Meter, a handheld tool that provides instant concrete air readings, to design innovations for the SoFi Stadium (Ram's) in California.

The event included a panel discussion on the current landscape of low-carbon concrete materials. The discussion moderated by Dean Frank, NEU Executive Director, included five technology owners who had an opportunity to present their alternative low-carbon materials and programs. The Q&A segment of the discussion allowed for the panelists and attendees to discuss mineralized CO₂-production of cementitious materials, a cement-free concrete product, use of silicate-based raw materials for cementitious materials, a zero-carbon bio-cement product and the generation of real-time life cycle assessment and environmental product declarations.



RESEARCH

Research is a critical component to bringing progress to our industry. Beyond advancing concrete knowledge, ACI Foundation research also supports emerging, talented researchers who can help shape our industry.

2024 Funded Research Projects

- **A Planning Study to Speed Up Broad Implementation of More Sustainable and Resilient Concrete Materials by the Pavement Sector**
PI: Somayeh Nassiri, University of California Davis
- **Analysis And Design of Concrete Bridge Deck Overhang Using GFRP Bars**
PI: Khaled Sennah, Toronto Metropolitan University
- **Design Guide Appendix Overhaul for Tilt-Up Concrete Construction**
PI: Kimberly Kramer, KDK Engineering, LLC
- **Design Requirements for Mechanically Spliced High Strength Reinforcing Bars in Hinge Regions, additional phase of existing work**
PI: Wassim Ghannoum, University of Texas at San Antonio
- **Development of Code Requirements for Additively Constructed Residential Concrete Walls (ACI ITG-12)**
PI: Gabriel Carrera, Wiss, Janney, Elstner & Associates, Inc
- **Development of Temperature Tables for ACI 306**
PI: Kevin MacDonald, Beton Consulting Engineers LLC
- **Evaluation of Breakout Strength of Beam-Column Connections of Non-Seismic or Ordinary Frames**
PI: Gustavo Parra-Montesinos, University of Wisconsin at Madison
- **Examining the Abrasion and Carbonation Resistance of Portland Limestone Cement Systems for Industrial Floors**
PI: Mehdi Khanzadeh Moradillo, Temple University
- **Experimental Investigation of Use of UHPC to Simplify Structural Detailing of Precast Shear Walls in Seismic Regions**
PI: Sriram Aaleti, University of Alabama
- **Floor Mix Study: Transition from I/II to IL [Cement] and AI Analysis**
PI: Mike Hernandez, American Society of Concrete Contractors
- **Improving Global Warming Potential Benchmarking for use in Low Carbon Concrete Code and Policies**
PI: Matthew P. Adams, New Jersey Institute of Technology
- **Improving the Safety of Rebar Cages Using Innovative Connectors Phase II: Failure Preventions of Below and Above Ground Rebar Cages**
PI: Hamed Ebrahimian, University of Nevada - Reno
- **Leveraging Transfer Learning to Predict the Performance of Novel Concrete Mix Designs in an Expeditious Manner**
PI: Stephanie Paal, Texas A&M University
- **Strength Reduction Factor for Plain Concrete**
PI: Andrzej Nowak, Auburn University
- **Three- Versus Four-Point Bending Test for The Identification of UHPFRC/FRC Tensile Constitutive Behavior**
PI: Francesco Lo Monte, Politecnico di Milano
- **Ultra-High Performance Concrete Compressive Model in Flexural Compression Zone**
PI: Yi Shao, McGill University



Scan the QR code to learn more about the completed Research Projects funded through the support of our donors



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THANK YOU TO OUR DONORS

Special thanks to ACI—you are a true partner and benefactor to our concrete community! Together, we are able to accomplish so much more for ACI and the industry.

Your mission-directed donations more than match the community donations below, and by providing full operations support for the ACI Foundation, **100% of mission-directed donations from the community go directly to the beneficiaries—students, research, and technology.**

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IMPACT

ACI Foundation supports a wide range of research and educational initiatives that contribute to keeping the concrete industry at the forefront of technological advances in material composition, design, and construction. We engage with industry partners, invest in students and research, share knowledge, and provide programs to encourage innovation and new technology.

MISSION

To make strategic investments in ideas, research, and people to create the future of the concrete industry.

VISION

ACI Foundation envisions a future where everyone has the knowledge needed to use concrete effectively to meet the demands of a changing world.

DONATE

