

ELECTRI 2023 The Year in Review

ELECTRI had another very productive year in 2023. We are pleased to present a summary of the findings, recommendations and tools available to the ELECTRI Council and the industry at large. We are confident you will find these initiatives valuable. We encourage you to continue to call on our ELECTRI team as a resource as we work together to advance the electrical contracting industry.

ELECTRI Resources

Project Management Apprenticeship Program. The U.S. Department of Labor (DOL) approved the National Guidelines for Apprenticeship Standards for the NECA/ELECTRI Project Management Apprenticeship. The program is intended to introduce apprentices to the entry-level aspects of Project Management. By the conclusion of the program curriculum, the apprentice will complete 2,000 on-the-job training hours with the hosting contractor company and earn a Certificate in Construction Project Management through the related instruction requirement. These qualifications will establish a foundation for the start of the apprentice's career in the EC industry. Each state must adopt the guideline standards to register the program in the state before apprentices can begin earning their on-the-job training hours.

[PROJECT MANAGEMENT APPRENTICESHIP INFORMATION](#)

The Electrical Contracting Innovation Challenge. The 2023 ECIC was a great success, with 12 NECA Student Chapter teams from universities across North America competing in the challenge. The winning team for 2023 was the University of Wisconsin- Madison. Our thanks to ELECTRI's Talent Initiative Committee and volunteer judges for their extensive involvement in this program. This year's ECIC included education and training on change orders, SOV and schedules, RFI, purchase orders, and submittals for the student teams.

[ACCESS FREE CLASSES](#)

Industry Connect Events. This year, ELECTRI hosted five Industry Connect events. These events connect high school students with our electrical contractors by focusing on construction technology. Local students and contractors get hands-on experience with Robotic Total Stations (RTS), X7 Point Cloud Scanners, XR10 Hololens, an OpenSpace 360 Camera, and virtual reality training. Thank you to Trimble, Building Point, OpenSpace, and Siemens for their support of this program. ELECTRI will host more Industry Connect events in 2024 to ensure more students have the direct opportunity to get involved with the electrical contracting industry. Learn how to host your own Industry Connect event by downloading the [INDUSTRY CONNECT TOOLKIT](#).

[INDUSTRY CONNECT INFORMATION](#)

NECA Student Chapter: Standard Operating Procedures & Best Practices. The toolkit includes Leadership Model, Meetings & Events, Recommended Events & Activities, Chapter Engagement, Community Outreach & Volunteering, Fundraising, Internship Resources, Awards & Scholarships, Electrical Contracting Innovation Challenge (ECIC), and Supporting Chapter Documents. [DOWNLOAD THE TOOLKIT.](#)

Internship Best Practices Toolkit. Electrical contractors need access to a pipeline of talent to sustain and grow their businesses. Because the road to success often begins with an internship, ELECTRI has created an Internship Toolkit and Guide to support contractors as they develop and manage their internship programs. The guide includes a full overview of internship programs, things to consider, and sample documents and templates to get a company started with its internship efforts. [INTERNSHIP BEST PRACTICES TOOLKIT](#)

Council Room Sessions. Every month, ELECTRI Council Room sessions cover a wide variety of topics. Each hour-long zoom meeting offers members of the ELECTRI Council the opportunity to share their insights and expertise or ask for help on a particular industry issue. We invite you to revisit each Council Room session and to share these recordings with other members of your team. Contact Jessica Cardenas at jc@necanet.org to access the recordings.

ConTech & Coffee and ITea & Coffee Sessions. To meet your IT and Construction Technology needs, ELECTRI offers alternating monthly online gatherings. ITea & Coffee zoom meetings are led by Matt Lamb, Chief Information Officer at Rosendin. ConTech & Coffee sessions are presented by ELECTRI. Contact Jessica Cardenas at jc@necanet.org to access the recordings.

Think Like a Leader Interviews. We continue to learn from key industry leaders on the ELECTRI Council through our *Think Like a Leader* conversations with the best of the best. Contact ELECTRI if you would like to recommend an industry leader whose experiences should be shared. [WATCH INTERVIEWS](#)

ELECTRI Research

The EC Industry Career Mapping Tool Plan. In 2022, ELECTRI International selected ProtoGen to lead a volunteer Task Force in conceptually developing a career mapping tool that would support increased awareness of EC industry career opportunities and pathways, intern programs, recruiting efforts, and career placement services. Working with a range of expert industry stakeholders, the Task Force a) characterized the current state of the art, b) conceptualized, developed, and validated a digital career mapping tool framework for the electrical contracting industry, c) built an implementation plan for the tool including estimated budgets and timelines, and d) summarized project findings in a whitepaper highlighting key project insights and research outcomes. The materials and information presented in the report are intended to support ELECTRI in preparing its overall budgeting for the development of the tool, to serve as a bid specification to solicit proposals from qualified firms in support of developing a career mapping tool, and to provide marketing support for the tool's launch. [DOWNLOAD THE REPORT.](#)

Outside of the Gate - Materials Management Model for Electrical Contractors. For electrical contractors, people are becoming a scarce resource, materials are becoming more challenging to plan and acquire, the materials cost ratio is increasing to 50% of construction costs, and scheduling is becoming more critical. Project Managers, Superintendents, and Foremen spend significant time “in the project” instead of “over the project” managing it. They report approximately 40% of their time is spent on materials. ELECTRI International partnered with Graybar and Professor Hala Nassereddine on this ELECTRI research project to focus on material management process improvements. This project also includes a self-evaluation excel tool. [DOWNLOAD THE REPORT.](#)

A Guide to 360-Photo Project Documentation. New 360-degree photo documentation tools are a low-cost, low-effort means of having complete visual project records. On site, someone walks the job and captures 360-degree photos and videos. Then, software automatically organizes these photos and videos by location and date of capture. Anyone who wants to access the photos is presented with a calendar and floorplans of the project in a web app or mobile app. The calendar indicates on which days photos and videos were captured, allowing you to navigate quickly to any day of interest. With a day selected, the floorplan indicates the locations of photos and the paths of videos. You select a location on the floorplan and are brought into a Google Streetview-like experience. This guidebook will help you through the process. [DOWNLOAD THE REPORT.](#)

Practical Workflows Using 360-degree Cameras: A White Paper on Reality Capture. Reality Capture is the process of capturing accurate and detailed data of physical environments and converting the data into a digital format. In recent years, the technology used for capturing reality has become increasingly sophisticated, with new tools and platforms being developed to meet the demands of various industries. In this whitepaper, ELECTRI explores the 360-degree camera as a reality capture device and shows how it can be used in the electrical construction industry during the demolition, design, construction and maintenance phases to improve accuracy and return on investment (ROI). [DOWNLOAD THE REPORT.](#)

How to Develop a Service Business Ready for the Electrification of Everything. As the world moves into the era of the electrification of everything, this video captures an information-laden but comfortably-paced conversation among a focus group of six electrical contracting veterans who collectively have devoted much of their careers to the service & maintenance segment of the electrical contracting industry. In the discussion, they share the benefits of their individual experiences on how to develop a service business in the new era of the electrification of everything. The focus group offers a number of takeaways that most contractors can immediately adopt for their own service & maintenance units. [Watch the video](#) and [DOWNLOAD THE REPORT.](#)

The Impact of our Future Infrastructure Growth—Opportunities for Electrical Contractors. ELECTRI recognized the importance of assessing the state-of-the-practice on emerging opportunities for the electrical industry related to the Infrastructure Investment and Jobs Act (IIJA). This report provides the electrical contracting community with an overview of the IIJA and areas closely related to their businesses, a survey, and structured interviews with electrical contractors. The purpose of this work is to

understand ECs' perceptions of the IJIA, as well as to identify emerging business opportunities and threats to the industry. [DOWNLOAD THE REPORT](#). Watch the Council Room session on this research [HERE](#).

View all of ELECTRI's past research and perform a detailed key word search (powered by DADO) in ELECTRI's on-line Research Library. [VIEW RESEARCH LIBRARY](#)

Commitment Highlights for 2023

New Founder Level Council Members in 2023

- AEC Inspire
- Arcadia Electrical Company, Inc.
- Arkansas Chapter NECA
- CalEnergy Corp.
- California Central Coast Chapter NECA
- Dewalt
- Dynalectric Oregon
- Huston Electric
- 'Joe' Dickey Electric
- Memphis Chapter NECA
- Nantze Electric
- Red River Valley Chapter NECA
- Remarcable
- RIVET Work
- San Mateo Chapter NECA
- Southern Tier Chapter NECA

New Champion Level Council Member in 2023

- Electric Plus, Inc.

Increased Commitments in 2023

- Border States Electric - \$75,000 to Champion Level
- Kansas City Chapter NECA- \$50,000 to Governor Level

Wendt Scholarship. 45 NECA Chapters will each receive a \$5,000 Wendt Scholarship credit from ELECTRI to use for a NECA education course for their members during 2024. This includes 6 first-time recipients.

2024 Wendt Scholarship Recipients:

- Arizona Chapter NECA
- Arkansas Chapter NECA
- Atlanta Chapter NECA
- Atlantic Coast Chapter NECA
- Boston Chapter NECA
- California Central Coast Chapter NECA
- Central Florida Chapter NECA
- Central Indiana Chapter NECA
- Chicago and Cook County Chapter NECA
- Connecticut Chapter NECA
- Dakotas Chapter NECA
- East Central California Chapter NECA
- Finger Lakes New York Chapter NECA
- Florida West Coast Chapter NECA
- Greater Cleveland Chapter NECA
- Gulf Coast Chapter NECA
- Idaho Chapter NECA
- Inland Empire Chapter NECA
- Kern County Chapter NECA
- Long Island Chapter NECA
- Maryland Chapter NECA
- Memphis Chapter NECA
- Milwaukee Chapter NECA
- Minneapolis Chapter NECA
- Monterey Bay Chapter NECA
- North Central Ohio Chapter NECA
- North Florida Chapter NECA
- Northeastern Illinois Chapter NECA
- Northern Indiana Chapter NECA
- Northern New York Chapter NECA
- Ohio Michigan Chapter NECA
- San Diego County Chapter NEA
- Southeastern Michigan Chapter NECA
- Southern Arizona Chapter NECA
- Southern Indiana Chapter NECA
- Southern Nevada Chapter NECA
- Southern Sierras Chapter NECA
- Southern Tier Chapter NECA
- St. Louis Chapter NECA
- St. Paul Chapter NECA
- Twin Ports-Arrowhead Chapter NECA
- West Virginia-Ohio Valley Chapter NECA
- Western New York State Chapter NECA
- Western Ohio Chapter NECA
- Wisconsin Chapter NECA