EPIC Affiliates
Membership

UNC CHARLOTTE
Energy Production and Infrastructure Center
The EPIC Affiliates Program is composed of representatives from corporations ("members") who have purchased membership into the program. Members benefit from EPIC’s core capabilities in developing focused solutions in energy technology, energy workforce development, economic development, and in preparing students for careers in energy through energy concentrations. Specific deliverables to a member company will be determined by which of the three levels of membership is selected.
EPIC Affiliates
KiloWatt

Membership

This membership level is for companies who seek more opportunities to grow and be recognized in the energy industry and would benefit from support, company exposure, networking, advising and access to the use of EPIC laboratories.

Economic Development
• 1 EPIC event sponsorship each year
• Ad in “EPIC Annual Report”
• Company profile on EPIC websites and in newsletters
• Company listing in the Affiliates directory
• Access to “EPIC Event” calendar
• Membership plaque in EPIC lobby
• Parking Validations for EPIC events at UNC Charlotte
• Access to EPIC conference rooms
• Credit with E4 Carolinas

Workforce Development
• Recruiting of summer student interns
• Participate in a member-only career fair
• Host of student field trip
• Engage with K-12 STEM schools
• Host a table at a student career fair
• Host a booth at Energy Job/Co-Op/Intern Fair
• Placement of job openings on EPIC website

Technology Development
• Credit toward sponsorship of 1 Senior Design Project
• Preferred access to EPIC labs, technical solutions, and advising (faculty)
• Participation on EPIC advisory groups and task forces
• Membership in EPIC Research Cluster

KiloWatt
$5,000
ANNUAL INVESTMENT
**EPIC Affiliates**

**MegaWatt**

**Membership**

$15,000 ANNUAL INVESTMENT

**Economic Development**
- 1 EPIC event sponsorship each year
- Ad in "EPIC Annual Report"
- Company profile on EPIC websites and in newsletters
- Company listing in the Affiliates directory
- Access to “EPIC Event” calendar
- Membership plaque in EPIC lobby
- Parking Validations for EPIC events at UNC Charlotte
- Access to EPIC conference rooms
- Credit with E4 Carolinas

**Workforce Development**
- Recruiting of summer student interns
- Participate in a member-only career fair
- Host of student field trip
- Engage with K-12 STEM schools
- Host a table at a student career fair
- Host a booth at Energy Job/Co-Op/Intern Fair
- Placement of job openings on EPIC website
  - Accommodations for a “Practitioner in Residence” or “Adjunct Faculty” at EPIC
  - 25% fee reduction for EPIC workshops, conferences
  - 1 option to be an energy conference panelist or seminar speaker
  - 1 freshman/sophomore student mentorship

**Technology Development**
- Credit toward sponsorship of 1 Senior Design Project and/or international student summer intern or graduate student
- Preferred access to EPIC labs, technical solutions, and advising (faculty)
- Participation on EPIC advisory groups and task forces
- Membership in EPIC Research Cluster

This membership level is for companies who are established or who are emerging and seek an identity in the energy field as being innovative and successful, and more opportunities to grow and hire talent. They would benefit from R&D support, company exposure, pipeline of workforce and availability of technical resources.
**EPIC Affiliates**

**GigaWatt**

**Membership**

This membership level is for companies who are recognized as or strive to be a leader in the energy community and a premier supporter of the work at EPIC. They would benefit from targeted and leveraged projects focused on specific business needs and the priority use of EPIC resources.

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**Economic Development**

- 1 EPIC event sponsorship each year
- Ad in “EPIC Annual Report”
- Company profile on EPIC websites and in newsletters
- Company listing in Affiliates directory
- Access to “EPIC Event” calendar
- Membership plaque in EPIC lobby
- Parking Validations for EPIC events at UNC Charlotte
- Access to EPIC conference rooms
- Credit with E4 Carolinas
- **1 “EPIC Innovator” session with students**

**Technology Development**

- Preferred access to EPIC labs, technical solutions, and advising (faculty)
- Participation on EPIC advisory groups and task forces
- Membership in EPIC Research Cluster
- Credit toward sponsorship of 1 Senior Design Project and/or international student summer intern or graduate student

**Workforce Development**

- Recruiting of summer student interns
- Participate in a member-only career fair
- Host of student field trip
- Engage with K-12 STEM schools
- Host a table at a student career fair
- Host a booth at Energy Job/Co-Op/Intern Fair
- Placement of job openings on EPIC website
- Accommodations for a “Practitioner in Residence” or “Adjunct Faculty” at EPIC
- Full fee reduction for EPIC workshops, conferences
- 2 options to be an energy conference panelist or seminar speaker
- 2 freshman/sophomore student mentorship

**ANNUAL INVESTMENT**

$50,000
### Purpose

EPIC Affiliates Program (AP) Members will benefit from EPIC’s core capabilities in developing focused energy solutions in technology, workforce development, and preferred access to students with an energy concentration.

It also assures a long-term revenue stream for EPIC to accomplish its mission while giving us the ability to manage our limited resources to serve a growing demand for the greater good of the industry and university.

Specific deliverables to a member company will depend on the level of membership. The major roles of the AP members will be:

- Advise the EPIC External Advisory Board (EAB) regarding EPIC’s research and educational activities using AP funding.
- Have preferred access to students for internships, co-ops, recruiting and employment.
- Have preferred access to EPIC events and networking opportunities.
- Have preferred access to EPIC labs and R&D activities.

### Member Benefits

<table>
<thead>
<tr>
<th>$30,000 toward a program seed project</th>
<th>KiloWatt - $5,000</th>
<th>MegaWatt - $15,000</th>
<th>GigaWatt - $50,000</th>
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<tbody>
<tr>
<td>Use of inventions resulting from AP Gigawatt funded projects</td>
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<tr>
<td>1 “EPIC Innovator” session with student inventors</td>
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<tr>
<td>Access to non-proprietary EPIC technical reports</td>
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<tr>
<td>Accommodations for a “Practitioner in Residence” at EPIC</td>
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<td>Sponsorship of 1 international student intern or 1 graduate student</td>
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<td>Fee reduction for EPIC workshops, conferences</td>
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<td>Option to be an energy conference panelist or seminar speaker</td>
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<td>Freshman/sophomore student mentorship</td>
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<td>E4 Carolinas credit</td>
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<tr>
<td>Recruiting of summer student interns</td>
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<td>Contribution toward sponsorship of 1 Senior Design Project</td>
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<td>Preferred access to EPIC labs, solutions, and advising (faculty)</td>
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<tr>
<td>A member-only career fair</td>
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<tr>
<td>Participation on EPIC advisory groups and task forces</td>
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<tr>
<td>Membership in EPIC Research Cluster</td>
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<tr>
<td>Host student field trip to Affiliate company</td>
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<tr>
<td>Engagement opportunities with K-12 STEM</td>
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<tr>
<td>1 EPIC event sponsorship each year</td>
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<tr>
<td>Company profile on EPIC websites and in newsletters</td>
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<tr>
<td>Host a table at a UNC Charlotte student career fair</td>
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<td>Booth at Energy Job/Co-Op/Intern Fair</td>
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<td>Parking Validations for EPIC events at UNC Charlotte</td>
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<tr>
<td>Access to EPIC conference rooms</td>
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Research Clusters and Centers
To focus and concentrate the applied research of EPIC faculty members, students, and industrial partners, research programs within EPIC are organized into seven Research Clusters.

Guidance is provided to these clusters by the Energy Cluster Council, a group of industry leaders focused on creating a sustainable operation and growth environment for EPIC and EPIC Affiliates at the GigaWatt level.

All EPIC Affiliate members will be members of a Research Cluster of their choice. Seed funded projects at the GigaWatt level may lead to R&D projects managed through the programs at EPIC.

A wide range of research also takes place through EPIC Focused Research Centers. Each Center provides specific opportunities for partnership among other universities, industry, and municipalities.

EPIC Research Clusters

Grid Modernization
Containing the Duke Energy Smart Grid Laboratory, this cluster performs research and demonstrations, distribution automation, transmission technologies, energy storage integration, and EV charging.

Large Energy Component Design and Manufacturing
This cluster advances state-of-the-art research and development in both the theory and practice of precision manufacturing on a large scale.

Energy and Environment
This cluster solves environmental problems related to energy generation and transmission, specifically addressing the protection and cleanup of groundwater, measurement and improvement of physical and chemical properties of soils and waste, and wastewater treatment.

Renewables and Energy Efficiency Devices
Research in this cluster includes off-shore wind, biomass and small-scale hydro technologies, integration of renewables, and photovoltaic module and LED research.

Power Infrastructure Development
Utilizing the resources of the EPIC high-bay lab and associated specialty labs, this cluster performs large-structures research on transmission and distribution designs, materials characterization and development, and performance monitoring.

Energy Analytics and Markets
The mission of this cluster is to provide leadership in analytic areas related to the forecasting, optimization, trading and economics of energy.

Transportation Energy
This cluster engages the passenger and freight transportation industry to provide solutions in workforce development, research and testing, and infrastructure improvement related to energy issues.

EPIC Research Centers

Center for Advanced Power Engineering Research (CAPER)
Created to develop and demonstrate a comprehensive and integrated methodology for grid modernization, CAPER is a membership driven consortium among Clemson University, NC State and UNC Charlotte.

Coal Ash and Liquid Management Office (CALM)
CALM develops practical technology-based solutions for the energy production industry to address problems and challenges with coal ash and liquids management.

Sustainably Integrated Buildings and Sites (SIBS)
A National Science Foundation and Industry/University Cooperative Research Center program, SIBS is a collaboration between leading companies, corporations, universities, government agencies and other organizations with the purpose of conducting research to improve energy use, water use, air quality and productivity in buildings. Currently Carnegie Mellon University is a partner with Penn State joining in 2017.

Technical Services
Technical Services delivers customized client assistance with comprehensive investigative projects, grant collaborations, project management, educational outreach, feasibility analysis, verification, focus groups and surveys, conferences, and other services. These services are provided through the EPIC laboratories, faculty, and staff.
For more information
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