



# The Center for **G**rid **E**nhancing **T**echnologies for **F**uture Energy Systems **I**ntegration and **T**ransmission (GET-FIT)

## Advancing the Future of Electric Power Systems

GET-FIT is an industry–university collaborative research center (IUCRC) focused on grid-enhancing technologies (GETs) to enable:

- Integration of large loads (data centers, EVs, electrification)
- Deployment of renewable, nuclear, and other emerging energy systems
- Expansion of transmission capacity and flexibility
- Improved grid reliability, visibility, and affordability

The Center brings together industry, government, and academia to co-develop solutions for the next-generation power grid.

## Why Participate?

- **Direct Influence on Research**  
Shape the research agenda through the Industry Advisory Board (IAB)
- **Leverage Your R&D Investment**  
~\$50k membership can leverage ~\$0.9M total research activity annually (NSF + university + programs)
- **Access to Talent & Facilities**  
Work with faculty, graduate students, and advanced laboratories
- **Pre-Competitive Collaboration**  
De-risk innovation in a shared-cost environment
- **IP Access**  
Royalty-free, non-exclusive access to Center-developed IP
- **Workforce Pipeline**  
Train and recruit engineers aligned with your needs

## Center Research Themes

**Transmission & Grid Modernization for New Energy Resource / Large Load Integration**

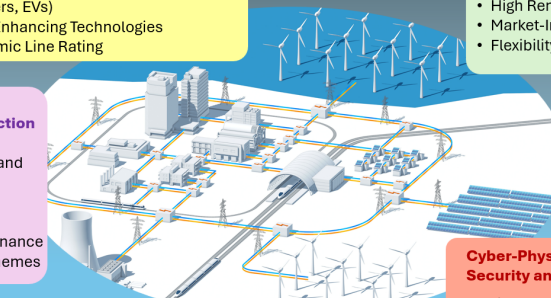
- Nuclear, Renewable, Wind Integration
- Electrification & Large Loads (e.g. Data Centers, EVs)
- Grid Enhancing Technologies
- Dynamic Line Rating

**Grid Planning, Operation, and Control for Energy Adequacy and Affordability**

- Optimal Power Flow
- High Renewable Penetration
- Market-Informed Grid Planning
- Flexibility & Cost Optimization

**Power Grid Monitoring, Maintenance, and Protection**

- Advanced Sensing & Diagnostics with IoT, AI, and Embedded Systems
- Wide-Area Monitoring Systems
- Condition-Based Maintenance
- Next-Gen Protection Schemes



**Workforce Development & Education**

- Curriculum & Hands-On Training
- Industry-Engaged Projects
- Professional Development

**Cyber-Physical Power System Security and Resilience**

- Grid Cybersecurity
- Physical Asset Resilience
- Anomaly & Threat Detection
- Flexibility & Cost Optimization

NSF IUCRC center led by New Jersey Institute of Technology (NJIT) [Lead] and Rowan University [Partner] in NSF Planning Phase.

NSF Award # 2515138 and 2515218

## How the IUCRC Model Works

- Members join the **Industry Advisory Board (IAB)**
- IAB defines research priorities
- Faculty propose projects aligned with industry needs
- Members **review, vote, and fund selected projects**
- Projects executed with **regular updates and IP sharing**

## Facilities & Capabilities

- Real-time power system simulation (OPAL-RT, PHIL)
- Microgrid and hardware-in-the-loop testbeds
- Grid analytics, optimization, and AI platforms
- Advanced sensing, robotics, and diagnostics labs

## Membership Model

	<i>Affiliate (potential future member)</i>	<b>Bronze (only for small companies or startups)</b>	<b>Silver</b>	<b>Gold</b>	<b>Platinum</b>
<b>Membership Fee</b>		<b>\$25k</b>	<b>\$50k</b>	<b>\$75k</b>	<b>\$100k</b>
<b>Voting Right</b>		<b>0.5 vote</b>	<b>1 vote</b>	<b>1.5 vote</b>	<b>2.0 vote</b>
<b>General Technical Discussion Meeting</b>	✓	✓	✓	✓	✓
<b>Decision-Making Executive Meeting</b>		✓	✓	✓	✓
<b>Determine Research Themes to Call for Proposals</b>		✓	✓	✓	✓
<b>Selection of Proposals</b>		✓	✓	✓	✓
<b>Shared IP</b>		✓	✓	✓	✓
<b>Company Logo on Website</b>		✓	✓	✓	✓
<b>Shared / Hot Desk Access: Available at NJIT (near New York City) and Rowan University (near Philadelphia)</b>		✓	✓	✓	✓
<b>Laboratory Naming Rights for Major Sponsors (e.g. “[Company Name] Research Lab” signage displayed at NJIT/Rowan facilities)</b>				✓	✓
<b>Office and Campus Access: Member organizations may receive dedicated office desk access, opportunities for affiliated faculty appointments, and access to university facilities for their employees <b>from the United States or overseas</b>. These privileges may include university email accounts, ID cards, library access, and recreation facilities. Access may be provided at either NJIT (near New York City) or Rowan University (near Philadelphia) *subject to university approval</b>			1	2	3

- Annual, renewable membership (flexible commitment)
- Tiered participation (Affiliate → Platinum)
- Multiple startup companies may form a consortium to jointly subscribe to a membership
- Affiliate members:
  - Affiliates can contribute either in-kind or \$
  - Can participate in general technical discussion
  - Have neither voting nor intellectual property
  - Suitable for organizations in consideration of future joining as formal members

## Engage With Us

### Strategic Roundtable (Planning Workshop)

June 8–9, 2026 | NJIT, Newark, NJ

<https://power.njit.edu/strategic-roundtable>

- Shape research priorities
- Engage with faculty and industry leaders
- Explore membership opportunities

## Contact



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