

GRAPES Members



Helping GRAPES members exceed their customer expectation through advanced power systems research



Investing in GRAPES is Investing in Your Future

Research Areas

- Electrical Grid Stability
- Integration and Optimization of Energy Sources in Complex Distributed Power Systems
- MV Power Conversion
- MV Switchgear
- MV DC Breakers
- Fault Detection and Resiliency
- Battery Charger and UPS
- Resilient Power System Design
- Multi-objective design optimization of products and components to lower cost, increase power density and improve reliability.

GRAPES Leadership



Alan Mantooth
Founding Director, UA



Yue Zhao
Executive Director, UA



Roy McCann
Site Director, UA



Robert Cuzner
Site Director, UWM



Adel Nasiri
Site Director, USC

GRAPES Center

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Locations

University of Arkansas
University of Wisconsin-Milwaukee
University of South Carolina

Partner Universities



GRAPES Mission

The Center for GRid- connected Advanced Power Electronics Systems (GRAPES) aims to accelerate the adoption and insertion of power electronics into medium voltage grid systems, in order to improve system stability, flexibility, robustness, and economy. Our mission is pursued through:

- Developing new technologies for advanced power electronic systems, including grid-connected distributed energy resources, power steering and routing devices, and intelligent load-side devices.
- Creating software and tools to control embedded and grid-connected power electronics, benefiting the grid and load control.
- Educating engineers to effectively use power electronic technologies, benefiting member companies and grid stability.

Member Benefits

(vary based on Member Type)

- Federal Grant Collaboration
- Research Project Access
- Mentoring and Input
- Research Investment Leverage
- Student Access via NSF's INTERN Program
- Collaborative Network with IAB Members
- Technology Transfer Support
- Facility and Faculty Access
- Engagement with Graduate Students
- Networking with GRAPES Members
- Monthly Project Webinars
- Funding Guidance by Members
- No-cost Access to GRAPES IP
- Annual Member Meeting Attendance
- Reduced-cost University Lab Access
- Technical Consultation Availability
- Access to Investigators and Researchers
- Industry Research Funding Pooling
- Technology Roadmapping Assistance
- Presentation Opportunities at GRAPES Events
- Student Recruitment Support

Membership Value

Knowledge

- Member Driven Research
- Recruit Students
- Technology Development
- Access to Professors
- Access to Publications
- Access to IP/Patents

Network

- Access to Students
- Network to Company Experts
- Network to Customers
- Joint Proposal Opportunities
- Network to DOD and DOE
- Network To National Labs
- Network to Other Universities

Various membership levels facilitate companies with similar power system and product challenges to pool their R&D funds and expedite technology development collaboratively.

