



Center for Power Electronics Systems

Empowerment via the CPES connection

PRINCIPAL PLUS MEMBERS

3M Company
ABB, Inc.
Analog Devices
Aurora Flight Sciences
CRRC Zhuzhou Institute Co., Ltd.
Delta Electronics
East China Res. Inst. of
Microelectronics
EnerSys
Ford Motor Company
FSP-Powerland Technology, Inc.
GE Global Research / GE Aviation
GE Grid Solutions
Hyundai Mobis
Infineon + International Rectifier
Innoscence (Zhuhai) Technology
Inventronics (Hangzhou), INC.
Jiangsu Wanbang Dehe New Energy
Technology Co., Ltd.
Komatsu Ltd.
Lite-On Technology Corporation
Lockheed Martin Corporation
Moog, Inc.
Murata Manufacturing Co., Ltd.
Navitas Semiconductor
Nissan Motor Co., Ltd.
NXP Semiconductors
ON Semiconductor
Panasonic Corporation
Rockwell Automation
Siemens Corporate Technology
Silergy Corporation
TMEIC
Texas Instruments
VisIC Technologies

JOIN THE CPES FAMILY –

- The best mechanism to stay abreast of technological developments in power electronics
- The ideal forum for networking with leading-edge companies and top-notch researchers

GAIN THE COMPETITIVE EDGE --

Leveraged funding -- reap the benefit of leveraged research funding of \$4.5 million per year

Industry influence -- guide the Center by serving on the Industry Advisory Board (IAB); help shape the Center's research program by participating in IAB working groups

Intellectual property – capture first-hand knowledge of CPES-generated technologies. Enroll as Principal Plus or Principal Member and gain IPPF (Intellectual Property Protection Fund)* benefits

Technology transfer -- gain the competitive edge via easy access to CPES publications and research updates, as well as the multi-disciplinary team of researchers

Continuing education -- enroll in the CPES professional short courses at a significant discount to broaden knowledge base and stay updated on new technologies

Access to state-of-the-art facilities, faculty expertise, top-notch students – utilize the invaluable resources and opportunities available via the CPES connection

CPES INDUSTRY PARTNERSHIP PROGRAM

– Tiered membership structure to benefit industries with varying needs and interests –

Principal Member Plus (\$50,000 per year) – Automatic IP benefits*, with membership funds earmarked for mini-consortium for focused research... plus all benefits below

Principal Member (\$30,000 per year) – Automatic IP benefits*, opportunity to guide and influence CPES via Industry Advisory Board (IAB) and IAB working groups ... plus all benefits below

Associate Member (\$15,000 per year) – password access to publications, presentations and student directory; complimentary registration for annual conference; significant discount for short courses; invitation to industry webinar presentations; option to participate in industry residence program, access to faculty, students, and state-of-the-art facilities

Affiliate Member (in-kind contributions, membership by invitation only) – password access to CPES conference proceedings

*Intellectual Property Protection Fund (IPPF)

IPPF is a unique IP access mechanism that provides extraordinary IP advantage to Principal-level members. IPPF is available automatically, at no additional cost, to Principal Plus and Principal members. IPPF members meet quarterly via telecon with inventors to discuss invention disclosures and jointly decide which technologies to protect, with patenting costs covered by IPPF. Once a technology is protected, IPPF members are granted a royalty-free, non-exclusive, non-transferable license to use the technology. IPPF is applicable only to technologies developed under the industry consortium by CPES-VT researchers.

Visit us at: <https://cpes.vt.edu/>

PRINCIPAL MEMBERS

EATON
Flextronics
LG Electronics
Mercedes-Benz R&D N. A., Inc.
NR Electric Co., Ltd.
Raytheon Company
Schneider Electric IT Corporation
Toshiba Corporation
VERTIV
United Technologies Research Center
ZTE Corporation

ASSOCIATE MEMBERS

AcBel Polytech, Inc.
Cummins, Inc.
Fuji Electric Co., Ltd.
General Motors
Groupe SAFRAN
Halliburton Energy Services, Inc.
Johnson Controls, Inc.
Kohler Company
Maxim Integrated Products
Microsoft Corporation
Northrop Grumman Mission Systems
Richtek Technology Corporation
Robert Bosch GmbH
Shindengen Electric Mfg. Co., Ltd.
Sumitomo Electric Industries, Ltd.
Suzhou Inovance Technology Co., LTD.
TDK-Lambda Corporation
Tesla Motors
Toyota Motor Corporation
United Silicon Carbide, Inc.
Valeo

AFFILIATE MEMBERS

ANSYS, Inc.
Chicony Power Technology Co., Ltd.
CISSOID
EGSTON Power Electronics GmbH
Efficient Power Conversion
Electronic Concepts, Inc.
Hitachi Metals
Mentor Graphics Corporation
OPAL-RT Technologies
Plexim GmbH
Powersim, Inc.
Silvaco
Simplis Technologies, Inc.
Synopsys, Inc.
Taiyo Yuden Co., Ltd.
Tektronix, Inc.
TOKIN Corporation
Transphorm, Inc.
VPT, Inc.



CPES INDUSTRY PARTNERSHIP PROGRAM

-- A tiered structure to benefit industries with varying needs and interests --

Industry Partners' Commitments and Benefits

	PRINCIPAL MEMBER PLUS	PRINCIPAL MEMBER	ASSOCIATE MEMBER
ANNUAL COMMITMENT	\$50,000	\$30,000	\$15,000
DIRECTED RESEARCH	<ul style="list-style-type: none"> Option to earmark \$40,000 of membership funds to participate in a mini-consortium for focused research or support a graduate student fellowship to explore research area relevant to the CPES strategic plan 		
INTELLECTUAL PROPERTY (IP) ADVANTAGE	<ul style="list-style-type: none"> Automatic IPPF* benefits at no additional cost to gain royalty-free, non-exclusive, non-transferable license Early access to CPES intellectual properties Two-year exclusivity for licensing opportunities Confidential info exchange upon execution of membership and IPPF agreements 		
INDUSTRY INFLUENCE	<ul style="list-style-type: none"> Guaranteed seat on Industry Advisory Board (IAB) to influence and guide CPES 		Representation by election
	<ul style="list-style-type: none"> Opportunity to participate in IAB Working Groups to help shape CPES research direction 		Representation by invitation
TECHNOLOGY TRANSFER	<ul style="list-style-type: none"> Password access to CPES database of papers, theses, dissertations, presentations, as well as student directory Complimentary registration to attend CPES annual conference Significant discount for CPES professional short courses Invitation to interact with CPES-VT researchers in monthly industry webinar presentations Opportunity for research collaboration, access to CPES research results, faculty, students, and state-of-the-art facilities Option to participate in Industrial Residence Program and work on site in CPES labs 		

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