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IEEE AT USF

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IEEE (INSTITUTE OF ELECTRICAL AND ELECTRONICS ENGINEERS)
4202 E. FOWLER AVENUE, MSC 4100, TAMPA, FL 33620

2026 – 2027



EST. 1964

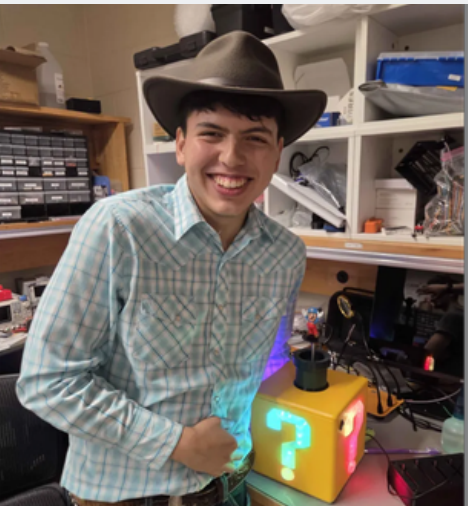
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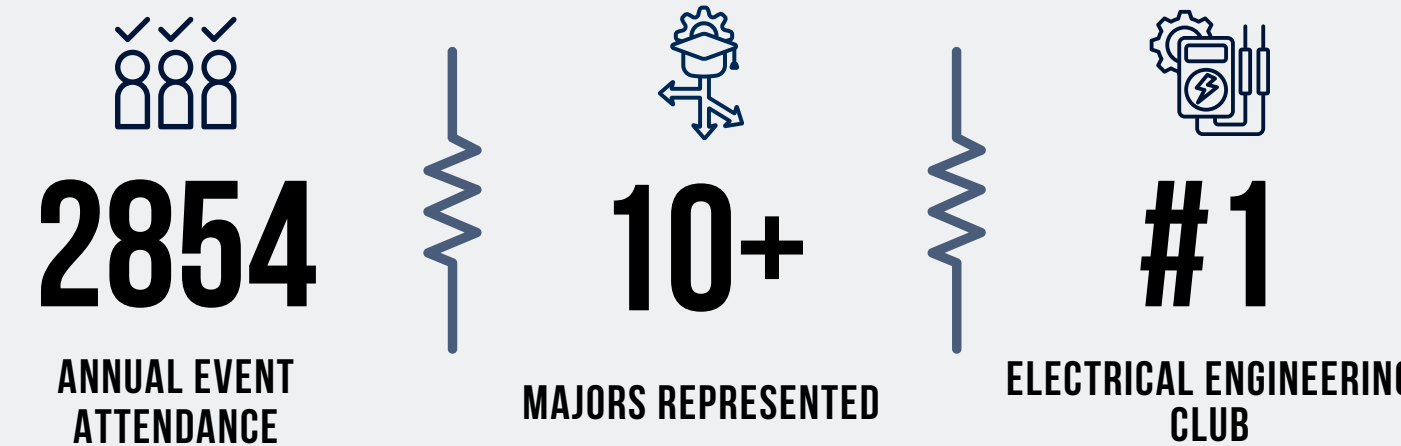
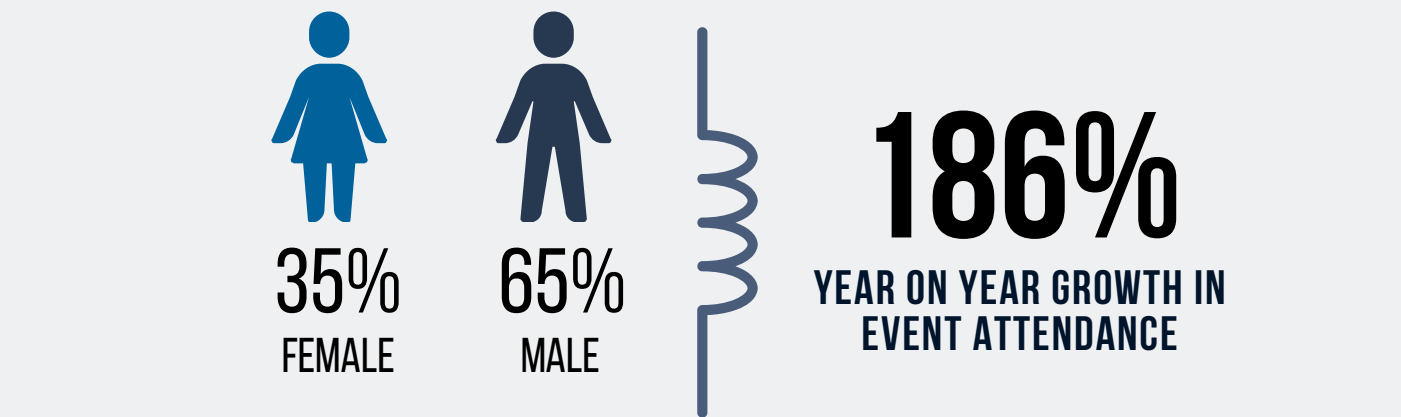
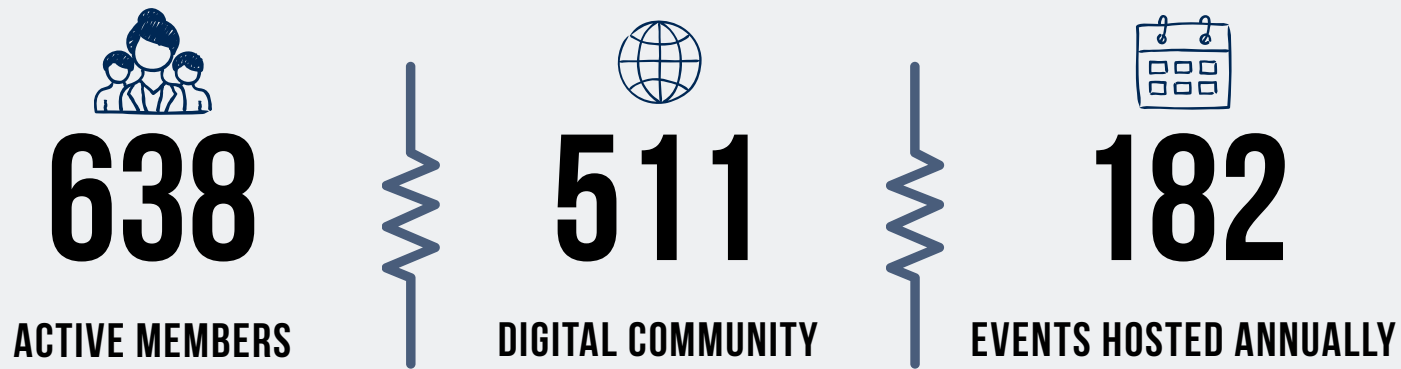
ABOUT IEEE AT USF

The University of South Florida (USF) Student Branch of the Institute of Electrical and Electronics Engineers (IEEE) serves as the bridge between USF students and the global IEEE organization, connecting academic theory with real industry practice.



Our mission is to foster professional development and technical excellence for the benefit of USF students.

We bring engineers together across disciplines to learn, build, and compete through hands-on projects, technical workshops, and industry events. By connecting members with companies, alumni, and professionals, we prepare future engineers to lead and transition confidently into the workforce.



PROFESSIONAL DEVELOPMENT

The Professional Development team is responsible for strengthening students' network and soft career skills. Our primary goal is to make our future professionals capable of clearly communicating and applying the marketable skills they develop through the technical programs within our organization.

MENTORSHIP OFFICE HOURS

- Weekly one-on-one support with peers and mentors
- Resume and cover letter review
- Interview preparation and mock interview
- Internship and research opportunity guidance



GOALS FOR THE YEAR

- Launch a new professional development speaker series
- Host at least one presentation for each EE focus area
- Organize at least one career fair per academic year
- Host four general career development events



GUEST PRESENTATIONS

- Industry-led technical talks and panels
- Career pathway and company spotlights
- Direct student-employer engagement
- Exposure to real-world engineering roles



EVENTS

AUTOMATION FEST

FALL

A full day connecting USF's automation and robotics community with industry. Companies showcase projects, network with professionals, and network with students. Last year drew 200+ attendees, including 150+ students and 25+ industry partners.

NANO FORUM

FALL

Brings students face to face with research happening at the smallest scales: nanotechnology, semiconductor devices, and materials science, and its impact across electronics and engineering.

WAMI FORUM

FALL

A technical forum connecting students with ideas and developments across the WAMI community, built around exchange and networking with emerging work in the field.

CAREER FAIR

FALL

Connects engineering students directly with employers for internships, full-time roles, and career conversations. A chance to practice professional introductions and build relationships with industry reps.

PICNIC

FALL/
SPRING

A casual picnic-style get-together where IEEE at USF members eat, relax, and network with one another outside the usual meeting format.

BANQUET

FALL/
SPRING

Our formal banquet is held at the end of each semester and celebrate the hard work that our members have done throughout the semester. This is also a time for us to thank our sponsors and university affiliates.

POWER FORUM

SPRING

Hosted by IEEE Power & Energy Society at USF, this forum brings students together with power and energy industry leaders through company presentations, a keynote, and networking over lunch. Last year: 12 companies and 93 students attended.

EXPO

SPRING

USF's flagship two-day Engineering Expo. A campus-wide showcase of student orgs, industry partners, and community groups through hands-on demos, open to the whole Tampa Bay region including K-12 visitors.



TECHNICAL PROGRAMS

RAPTOR

1ST PLACE 2025 · 2ND PLACE 2026
RTX AUTONOMOUS VEHICLE COMPETITION



RAPTOR (Robotics & Autonomous Platforms for Tournaments, Optimization, & Research) is IEEE at USF's autonomous vehicle competition team where members design, build, and field complete autonomous platforms for competitions, namely the RTX Autonomous Vehicle Competition.

STUDENTS LEARN

- Perception, autonomy, and controls
- Embedded systems, sensors, and power
- Requirements definition and verification testing
- Design reviews and full vehicle integration

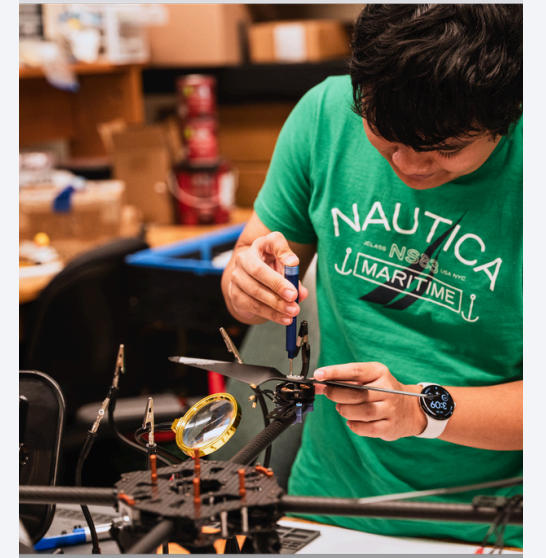
GOALS FOR THE YEAR

- Return to 1st place at the RTX AVC
- Deliver a PDR, CDR, and validated MBSE model
- Train juniors to lead next season
- Expand in house testing and integration capability

SWARM

AERIAL ROBOTICS & MECHATRONICS

The Student Workspace for Aerial Robotics and Mechatronics (SWARM) is our dedicated drone research program. SWARM trains students in the design, construction, and piloting of autonomous aerial systems while simultaneously conducting targeted research into emerging UAV technologies. By tackling projects defined by industry partners, SWARM prepares students to solve real-world aerospace and mechatronic challenges.



GOALS FOR THE YEAR

- Build a custom heavy-lift autonomous drone, a medium mission drone, and a small racing drone.
- Create safe operating procedures for autonomous flight
- Connect student projects with industry-defined challenges



STUDENTS LEARN

- UAV design and aerodynamics
- Flight control and autonomy
- Mechanical and electrical integration
- Real-world testing and data analysis



TECHNICAL PROGRAMS

WORKSHOPS

PEER LED HANDS-ON TECHNICAL TRAINING

Our Technical Workshop series provides members with hands-on, industry-certified training on the enterprise EDA tools engineers use every day.

We pair each tool with the practical do's and don'ts of the field, so members build real workflow habits, not just tool familiarity.

Everyone who takes part leaves with concrete, marketable skills ready to apply on day one.



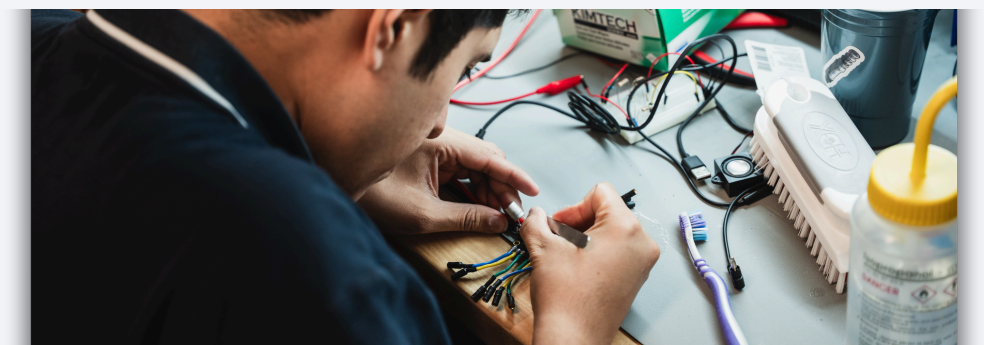
WORKSHOP TOPICS

- **Core Skills:** Microcontrollers, Soldering, SolidWorks, PCB Design
- **Bioelectrical:** Pulse Oximetry
- **Communications:** QPSK Links in SystemVue
- **Power:** Systems Analysis in ETAP
- **Mechatronics:** Digital Twins in MATLAB
- **Micro/Nano:** Amplifiers and CMOS ICs in Cadence
- **Wireless/RF:** Matching, Antennas, LNAs, Filters (ADS, HFSS)
- **Systems and Security:** HackTheBox CTF

LAB SESSIONS

BUILDING, COLLABORATING, AND TESTING PERSONAL PROJECTS

A collaborative space where members turn ideas into finished projects. With tools, equipment, mentorship, and funding, they get support at every stage, from concept and prototyping to PCB design, enclosures, testing, and assembly.



STUDENTS GAIN

- Portfolio-worthy projects that show real engineering ability
- Full design process experience, concept to final build
- Support for personal, academic, and competition work
- A spot at the annual USF Engineering Expo in front of industry and faculty

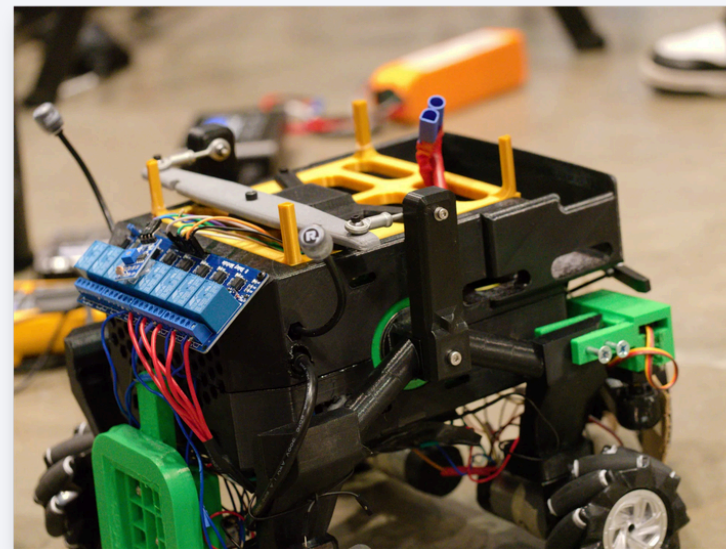


TECHNICAL PROGRAMS

SOUTHEASTCON

SUITE OF ENGINEERING COMPETITIONS

SoutheastCon is an Engineering competition showcase in which students can compete in a variety of competitions, including Hardware, Software, Circuits, Ethics, and Presentation. Hosted annually each spring, the IEEE SoutheastCon competition brings together student teams from across our region to compete head-to-head.



STUDENTS LEARN

- Perception, autonomy, and controls
- Embedded systems, power management, and computer vision
- Requirements definition and verification testing
- Design reviews and full vehicle integration

GOALS FOR THE YEAR

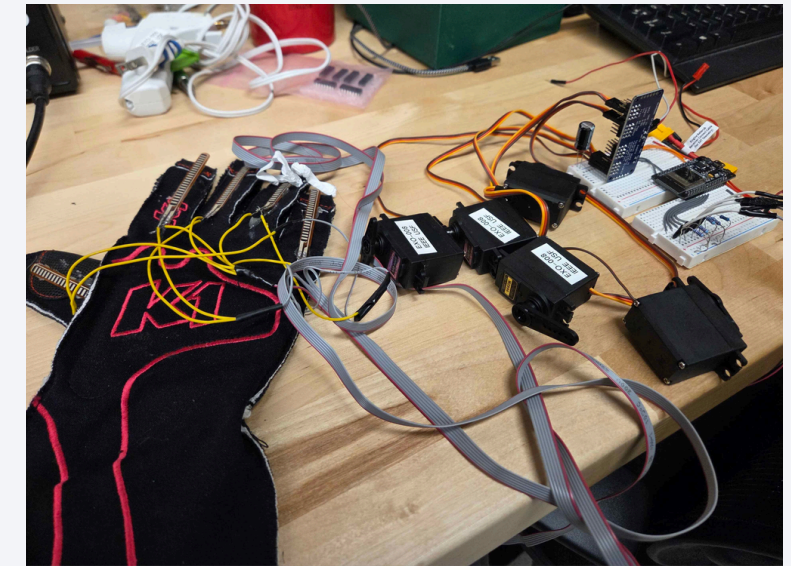
- Design and build multiple fully autonomous robots with implemented sensor fusion and computer vision systems
- Deliver a PDR, CDR, and validated MBSE model
- Train juniors to lead next season
- Win 1st in the Hardware Competition

EXO

EXOSKELETAL SYSTEM

EXO is IEEE at USF's assistive exoskeleton initiative, developing an advanced exoskeletal frame engineered to enhance human strength, mobility, and endurance.

The program brings together three specialized divisions: Structural and Frame Design, Actuators and Movement Control, and Suit Communications, each tackling a core piece of the system.



STUDENTS LEARN

- 3D CAD designing
- Principles of biomechanics
- Integration techniques for sensors, actuators, and microcontrollers
- Control systems and digital twins
- Human subjects testing protocol and data analysis

GOALS FOR THE YEAR

- Complete baseline gait and joint torque testing in partnership with USF CARRT
- Deliver a functional lower limb torque assistance prototype validated against that baseline
- Establish a repeatable design, test, and iterate workflow across all three divisions



SPONSORSHIP BENEFITS OVERVIEW

AFFILIATE SPONSOR

\$750

INCLUDES:

- End-of-Semester Social Media Shout-Out
- Company Logo Featured on Website
- Framed Team Photo
- Thank-You Letter from Executive Board
- Acknowledgement at End-of-Semester Banquet

FELLOW SPONSOR

\$3000

INCLUDES ALL AFFILIATE BENEFITS, PLUS:

- Company Logo Featured on Merchandise
- Company Logo Featured on Organization Banner
- Logo Placement on SoutheastCon Robot
- Access to Curated Resume Database
- Digital Copy of Annual Scrapbook

SENIOR SPONSOR

\$7500

INCLUDES ALL FELLOW BENEFITS, PLUS:

- Premier Logo Size and Placement on Merchandise and Banner
- Complimentary Tabling at Any Major Event
- Company Banner Displayed in Lab
- Host a Technical Workshop or Professional Development Event
- Exclusive Access to Member-Only Job Portal
- Physical Copy of Annual Scrapbook

A LA CARTE

Logo / Name on Southeastcon Robot

\$500

Branded SoutheastCon Team Shirts

\$800

Host Professional Development Event

\$750

Access to Curated Resume Database

\$1000

Access to Job Posting Portal

\$1000

Host Technical Workshop

\$1250

Sponsor a Technical Program

\$5000



ADDITIONAL PARTNERSHIP OPPORTUNITIES



GUEST SPEAKING

We believe that the best engineering education extends far beyond the classroom. We invite your team to share their expertise, insights, and career journeys directly with our members. Presenting at one of our Professional Development events allows your organization to build authentic connections with our students and mentor engineering talent.

OPPORTUNITIES INCLUDE:

- Technical talks or project demonstrations
- Resume, interview, and career workshop
- Industry panels and company spotlights
- Specialized sessions for software, hardware, robotics, or professional development



IN-KIND DONATION

Do you have industry-grade equipment, components, or software licenses that could empower the next generation of engineers? We welcome any in-kind donations that directly support our laboratory operations and competitive design projects.

By donating hardware or equipment, your company provides our students with hands-on experience using the exact technology they will encounter in the workforce.

WE'RE LOOKING FOR:

- **Lab Equipment and Software:** Oscilloscopes, digital multimeters, Function Generators, soldering stations, and 3D printing supplies. Software licenses, cloud credits, design tools, or simulation platforms are also useful
- **Hardware Components:** Microcontrollers, custom PCBs, sensors, batteries, and robotics chassis materials.



COMPETITION & EVENT SUPPORT

Companies may also support [IEEE](#) at [USF](#) by sponsoring the resources needed to run events and compete at regional and national competitions.

Two programs that need support for competitions and events are SWARM and SoutheastCon as it involves interstate travel and prizes.

SUPPORT MAY INCLUDE:

- Team level, lodging, or vehicle rentals
- Meals or catering for events and competitions
- Workshop materials and event supplies
- Printing, signage, and project exhibition costs



HOW TO DONATE

IEEE at USF is a Registered Student Organization under USF Policy 6.017. With this, an account with the USF Foundation has been set up as the form of payment for IEEE at USF sponsorship. USF Foundation is the primary method of contributing money to specific causes at USF. Sponsorship payments to the chapter are tax exempt through the USF Foundation, due to the USF Foundation being a 501(c)(3) nonprofit.

STEP ONE

Fill out the Sponsor Form linked on our website, and email the signed form to **fundraising@ieeeusf.com**. During the completion of the form, you will be asked for a method of payment. Please reference the information below to select a method of payment that your company is most comfortable with.

STEP TWO

Payment Method A (through USF Foundations):

This form of payment is through the USF Foundation website, and is tax exempt under the USF Foundation, a 501(c)(3) non-profit.

1. Go to the USF Foundations Website
2. Make sure **"IEEE Student Group" Fund #220214** is selected
3. On the left side, please enter a gift amount that matches the sponsorship tier that your company is interested in.
4. Click the **"Add this gift."** button.
5. Scroll down and fill out the Credit Card Billing Information section. Please select the **"This is a Corporate Gift"** and **"This is a Business Address"**.
6. In the Other Information section, please note that it is a sponsorship the company is providing, and include the level of sponsorship. Then click **"Give Now"**

Payment Method B (Physical Check):

This is tax exempt through the USF Foundation, a 501(c)(3) nonprofit. Please make checks payable to "USF Foundation" and mail to the following address.

USF Foundation
4202 E. Fowler Avenue, ALC100
Tampa, FL 33620, USA

In the Memo field of the check please write **"Fund # 220214"**.

STEP THREE

We will email your receipt, along with a sponsorship benefits packet that details how to utilize the your benefits, along with any information or access codes needed for your benefits. We may also contact regarding artwork and information for us to carry out promotions and marketing.



LEARN MORE

LINKS



WEBSITE

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[HTTPS://WWW.INSTAGRAM.COM/IEEEUSF/](https://www.instagram.com/IEEEUSF/)



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CHAIR@IEEEUSF.COM

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FUNDRAISING@IEEEUSF.COM

TREASURER - CAYLEE WARD

TREASURER@IEEEUSF.COM

QUESTIONS?

EMAIL HAMAD OR CAYLEE TO SET UP A MEETING



For all sponsorship levels, please note the following: Pursuant to IRS guidelines, support is defined as a 'Qualified Sponsorship', which means no endorsement of your business, qualitative of comparative language, price information or indication of savings or value can be included in written words or in program remarks. In essence, your organization can be acknowledged through simple use of your names, logo and location, but no message that promotes or markets and trade or business, or any service, facility or product is permissible.

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FLORIDA: A COPY OF THE OFFICIAL REGISTRATION AND FINANCIAL INFORMATION MAY BE OBTAINED FROM THE DIVISION OF CONSUMER SERVICES BY CALLING TOLL-FREE, WITHIN THE STATE, 1-800-435-7352 (800-HELP-FLA) OR VISITING www.FloridaConsumerHelp.com. REGISTRATION DOES NOT IMPLY ENDORSEMENT, APPROVAL, OR RECOMMENDATION BY THE STATE.
Florida Registration # CH30505

GEORGIA: A full and fair description of our programs and our financial statement summary is available upon request at our office and phone number indicated above. **MARYLAND:** For the cost of copies and postage, from the Office of the Secretary of State, State House, Annapolis, MD 21401

MISSISSIPPI: The official registration and financial information of the University of South Florida Foundation may be obtained from the Mississippi Secretary of State's office by calling 1-888-236-6167. Registration by the Secretary of State does not imply endorsement.

NEVADA: Contributions may be tax deductible pursuant to the provisions of sec. 170(c) of the Internal Revenue Code of 1986, 26 U.S.C. §170(c).

NEW JERSEY: INFORMATION FILED WITH THE ATTORNEY GENERAL CONCERNING THIS CHARITABLE SOLICITATION AND THE PERCENTAGE OF CONTRIBUTIONS RECEIVED BY THE CHARITY DURING THE LAST REPORTING PERIOD THAT WERE DEDICATED TO THE CHARITABLE PURPOSE MAY BE OBTAINED FROM THE ATTORNEY GENERAL OF THE STATE OF NEW JERSEY BY CALLING 973-504-6215 AND IS AVAILABLE ON THE INTERNET AT: <http://www.state.nj.us/lps/ca/charfrm.htm>. REGISTRATION WITH THE ATTORNEY GENERAL DOES NOT IMPLY ENDORSEMENT.

NEW YORK: Upon request, from the Attorney General Charities Bureau, 28 Liberty Street New York, NY 10005.

NORTH CAROLINA: Financial information about this organization and a copy of its license are available from the State Solicitation Licensing Branch at 1-919-814-5400. This license is not an endorsement by the state.

PENNSYLVANIA: The official registration and financial information of the University of South Florida Foundation may be obtained from the Pennsylvania Department of State by calling toll-free, within Pennsylvania, 1-800-732-0999. Registration does not imply endorsement.

VIRGINIA: From the State Division of Consumer Affairs in the Department of Agricultural and Consumer Services, P.O. Box 1163, Richmond, VA 23218.

WASHINGTON: From the Secretary of State at 1-800-332-4483 or <http://www.sos.wa.gov/charities/>.

WEST VIRGINIA: West Virginia residents may obtain a summary of the registration and financial documents from the Secretary of State, State Capitol, Charleston, WV 25305. Registration does not imply endorsement.

WISCONSIN: A financial statement of the charitable organization disclosing assets, liabilities, fund balances, revenue and expenses for the preceding fiscal year will be provided to any person upon request. CONTRIBUTIONS ARE DEDUCTIBLE FOR FEDERAL INCOME TAX PURPOSES IN ACCORDANCE WITH APPLICABLE LAW.

REGISTRATION IN A STATE DOES NOT CONSTITUTE OR IMPLY ENDORSEMENT, APPROVAL, OR RECOMMENDATION OF THE UNIVERSITY OF SOUTH FLORIDA FOUNDATION BY THAT STATE.

