Dear CSE Students:

Welcome to the first newsletter of the Summer 2021 semester.

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<tr>
<th>Message from the UG Advisor:</th>
<th>Message from the Grad Program Assistant:</th>
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<tbody>
<tr>
<td>Congratulations to our spring 2021 graduates! If you plan to graduate in summer, make sure that you've completed all your requirements. Double-check your Degreeworks audit. Consult a CSE advisor if you have questions. We continue to offer online walk-in advising entirely through Microsoft Teams. The online walk-ins are a great way to get your questions answered quickly (assuming you can’t find the information you need on CSE website). Please reserve scheduled appointments for time-intensive questions. Online walk-ins will be available as currently scheduled on CSE website unless interrupted by orientation activities.</td>
<td>TA/RAs, NOT appointed as OPS, please be sure to submit your summer 2021 tuition waiver form to me by the end of add/drop week on Friday, May 21. Your schedule does need to be final before you submit the waiver.</td>
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<tr>
<td>Fall registration is in process. Please check your OASIS account now for your status and time ticket. If you have any holds, they will need to be removed before you can register. The SI and IM holds are removed by Student Health Services. Please see the website for details <a href="https://www.usf.edu/student-affairs/student-health-services/holds/">https://www.usf.edu/student-affairs/student-health-services/holds/</a>.</td>
<td>Students who plan to graduate in Summer 2021 or Fall 2021, please make sure to check your OASIS to be sure you do not need to transfer any courses and that you do not have any &quot;M&quot; or &quot;I&quot; grades. You also need to turn in a FINAL plan of work before the semester starts and be sure to register for any remaining requirements to complete your degree. For thesis students, your committee form needs to be submitted the semester before you plan to graduate.</td>
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<td>PhD Students - If you are planning to do your major area presentation this semester, please be aware of the following deadlines: You MUST have your committee form submitted to me by July 21. The admission to candidacy form cannot be submitted until after you complete your major area presentation. The form is due to Grad Studies by the last day of the semester. You should do your presentation and get all the forms signed and submitted to me by August 3rd at the latest, so that they can be processed in time. You MUST be registered for credits the semester you apply for candidacy, so if you are not registered this summer, you will need to wait until fall to submit the forms.</td>
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Please note that the below listing does **not** imply University or Department endorsement:

- Looking for participants: Graduate Research Study about reducing anti-Black
- Networking Internship with Global ETS
- IT Support Specialist with MediaLab
- Citi University Partnerships (CUPID) Leadership & Development Program 2021 – Global Functions Technology
- Electrical Engineer/Firmware Intern with Custom Manufacturing & Engineering
- Watermark Scholars Scholarship Opportunity for Women in STEM
- KnowBe4 Careers Cybersecurity Scholarship
- Upcoming Hackathons

Regards,

Ken Christensen
Professor and Associate Chair of UG Affairs
Dear Student,

I am writing to let you know about an opportunity to participate in a voluntary research study about reducing anti-Black bias using controlled argumentation games. This study is being conducted by Lindsay Fields, a graduate student from the Department of Computer Science and Engineering at the University of South Florida, under the direction of Dr. John Licato. You are eligible to be in this study because you are an undergraduate student at the University of South Florida.

If you decide to participate in this study, you will be asked to log in to our private game server and to watch a video which will tell you how to play the game. You will be paired with another student to improve a flawed analogy. Depending on if you are assigned to the experimental or control group, you and your partner will be able to interact within a structured game environment or in a chat room. At every study visit you will be asked to:

- Take assessments which will evaluate your level of subtle and blatant anti-Black bias, as well as your attitudes toward diversity training. This will include questions about your beliefs and behavior toward Black individuals.
- Provide honest responses; your honesty will be confirmed by analyzing the amount of time you take to respond to questions and the pattern you use to type on your keyboard.
- Participate politely with another student. All games will be moderated to make sure you and your partner are being polite.

Participation in this study will take up to 2.5 hours over 5 weeks. You will receive up to $45 in virtual gift cards for taking part in this study. If you stop participating before the study is over, you may receive partial compensation.

Remember, this is completely voluntary. You can choose to be in the study or not. The study was approved by the USF Institutional Review Board as study #002347. If you'd like to participate or have any questions about the study, please email or contact me at ldfields@usf.edu or (813) 966-9246.

Thank you very much.

Sincerely,

Lindsay Fields
About Global ETS

GETS offers many of the most comprehensive, next generation of independent component authentication and unparalleled quality testing services available in the industry today. This is the type of independent, unbiased top tier quality component authentication testing lab the industry has been waiting for. While offering new, proprietary technologies, software, hardware, and analytical testing method.

We are looking for intern with the following experience.

- Required: PHP programming language
- Required: MySQL database language
- Required: Javascript programming language
- Preferred: Linux (CentOS/Redhat/Ubuntu)
- Preferred: LAMP stack
- Preferred: Wordpress
- Preferred: Website design and development
- Preferred: SEO
- Preferred: AWS cloud computing

Projects will include the following.

- Refresh of company external website (Wordpress, AWS, SEO).
- Adding functionality to custom-built internal web application (PHP, MySQL, Javascript)
- Managing linux servers (Linux, LAMP)
- Trouble-shoot day-to-day IT-related issues

*This is not distance work. Company location is in Odessa FL. (30 mins drive to USF).
Must prepare your own transportation.

Please send your resume to: stan@gets-usa.com.
IT Support Specialist

SUMMARY:
The IT Support Specialist is a key IT team member that supports the organization regarding any IT related issues, projects, or initiatives. They will manage the help desk tickets generated daily to their completion. The IT Support Specialist may be required to provide support during off hours and must be flexible to changes throughout the day.

KEY PERFORMANCE ROLES and RESPONSIBILITIES:
The IT Support Specialist is responsible for Tier 1 technical support. His/her primary responsibility is to support the organization with any IT related projects and issues. He/she consults with the Information Technology Team and leverages IT knowledge to efficiently complete any tasks assigned or required.

These key responsibilities include, but are not limited to:

• Provide technical assistance with computer hardware and software
•Resolve technical issues in a timely manner using available resources within the company
•Facilitate new employee workstation setup, laptops, and shipping if necessary
•Perform hands-on fixes at the desktop level, including installing and upgrading software and configuring systems and applications
•Resolve technical issues in a timely manner using available resources within the company
•Documentation of IT related processes and workflows
•Achieves computer system objectives by gathering pertinent data; identifying and evaluating options; recommending a course of action
•Evaluating IT processes and recommending changes
•Creates and maintains historical records by documenting hardware and software changes and revisions
•Help maintain accurate network documentation, diagrams, monitoring platforms, and alerts
•Identify and learn appropriate software and hardware used and supported by the organization
•Maintains client confidence and protects operations by keeping information confidential
•Must be a self-starter willing to put in the hours when necessary to meet customer demands
•Contributes to team effort by accomplishing any tasks and incidental duties as assigned and as needed

MINIMUM QUALIFICATIONS:
One to Two years providing end-user support for desktop and application software
General understanding of a broad spectrum of technologies/devices
Must be able to conduct triage, prioritize tasks, and have great communication skills

PREFERRED QUALIFICATIONS:
MCP (Microsoft Certified Professional) or equivalent certification
OR
CompTIA A+

If interested, please visit https://medialab.bamboohr.com/jobs/view.php?id=22 to apply
Citi’s mission is to serve as a trusted partner to our clients by responsibly providing financial services that enable growth and economic progress. Our core activities are safeguarding assets, lending money, making payments and accessing the capital markets on behalf of our clients. We have 200 years of experience helping our clients meet the world’s toughest challenges and embrace its greatest opportunities. We are Citi, the global bank – an institution connecting millions of people across hundreds of countries and cities.

Citi® University Partnerships in Innovation & Discovery (CUPID) Leadership & Development Program 2021 – Global Functions Technology

Applications will close on Monday, May 3rd

Interested in a technology career? Citi’s Global Functions Technology team is partnering with Citi® Ventures’ Citi University Partnerships in Innovation & Discovery (CUPID) Program to offer a best-in-class leadership & development program!

We are seeking high potential undergraduates graduating between December 2020 and June 2021 who want to start their career in tech. This five-week paid, full-time program will offer development and mentorship opportunities within our global organization.

Participants will be eligible for full-time offers on the Global Functions Technology team!

To learn more, optional information sessions will be held on April 26th or April 29th via Zoom.

Apply for the program here: https://tinyurl.com/cupidprogram

We look forward to hearing from you! If you have any questions, please email cupid@citi.com

Citi is an equal opportunity and affirmative action employer. Minority / Female / Veteran / Individuals with Disabilities / Sexual Orientation / Gender Identity.

Citigroup Inc. and its subsidiaries (“Citi”) invite all qualified interested applicants to apply for career opportunities. If you are a person with a disability and need a reasonable accommodation to use our search tools and/or apply for a career opportunity CLICK HERE.

To view the “EEO is the Law” poster CLICK HERE, To view the EEO Policy Statement CLICK HERE.

To view the Pay Transparency Posting CLICK HERE.
**Electrical Engineer/Firmware Intern**

**Job ID:** 2021-13B  
**Regular/Temp:** Intern  
**Full-Time/Part-Time:** Part-Time  
**Submit Reply and Resume to:** CMEHR@custom-mfg-eng.com

MUST complete Predictive Index test before applying: [https://assessment.predictiveindex.com/54R/de91c1f6-f683-4c1d-a42b-ca14242e1f4b?type=candidateba](https://assessment.predictiveindex.com/54R/de91c1f6-f683-4c1d-a42b-ca14242e1f4b?type=candidateba)

**Job Summary:**

Are you someone who has a passion for solving problems? We have an exciting opportunity for an Electrical Engineer/Firmware Intern to be involved in the development of key parts of electrical and power electronics products for exciting verticals such as future utility and power grid subsystems, heavy equipment and industrial machinery markets, and defense and aerospace. Working under the mentorship of an electrical engineering subject matter expert, you will be assisting with electrical/electronic designs, and/or firmware and software development for new power converter and inverter products and will be involved in requirement gathering, analysis and development as well as testing the systems under the supervision of management.

**Duties and Responsibilities:**

- Works with design engineers to create circuit designs such as analog, digital, mixed analog and digital, power, RF, and FPGA circuit designs
- Generate circuit card assembly (CCA) design files and documents using Computer Aided Design (CAD) tools for schematic (i.e., ORCAD 17.2)
- Leverage reference designs and develop new MCU solutions for power conversion, power management, or other assembly hardware development requirements
- Design, develop, implement, debug and maintain embedded real-time software and control algorithms for power conversion functions based upon careful math modeling techniques for optimum performance and in compliance with product specifications
- Develop firmware for a new or existing advanced power conversion products (especially inverters and DC/DC and AC/DC converters) aimed at high reliability military and industrial applications such as micro/nanogrids or other off-grid power device requirements
- Develop documentation and test plans for software
- Develop standard and custom communication protocols for new systems, if required
- Use software tools in development of automated test equipment by using LabVIEW and LabWindowsTM/CVI with TestStand to include new or modified test software/routines
- Other software/firmware tasks as required.

**Job Qualifications:**

- Familiarity with PCB layout for high-speed circuits
- Microcontroller or embedded basics, and/or comfortable with MATLAB, Python, C, C#, C++, Java, or C language programming with emphasis on real-time concepts
• Basic experience and willing to rapidly learn for the development of new Microcontrollers and Digital Signal Controllers, leveraging reference design products/evaluation kits such as Texas Instruments (e.g., TI C2000 real-time control MCU, controlCARD and controlSUITE, and TIDA-XXXXX & TIDM-XXXX type or other similar reference designs).

• Basic understanding of Electrical Engineering, Computer Science

• LabVIEW Certification, Associate or Developer (preferred), exposure to LabVIEW FPGA, and LabVIEW Real-Time software and/or LabWindows/CVI (ANSI C software development environment) are all pluses

• Experience with real-time data acquisition and instrument control

• Familiarity with Power Conversion, Power Electronics, and Power Management smart control to include any design experience for power-and memory-efficient firmware

• Experience in Modbus, TCP/IP, HTTP and SNMP protocols a plus.

• Familiarity with common bus protocols such as USB, MIPI CSI2, SPI, I2C, CAN, RS232, RS485, etc.

Minimum Requirements Needed:

• Working towards a BS in electrical engineering and/or computer science

• Positions with CME require access to controlled goods and technologies subject to the International Traffic in Arms Regulations or the Export Administration Regulations. Applicants for these positions need to be "U.S. Persons," as defined in these regulations. Generally, a "U.S. Person" is a U.S. citizen, lawful permanent resident, or an individual who has been admitted as a refugee or granted asylum.

• Successful Passage of Required Screenings & Tests: Background Check, Reference, Credit, and Drug Testing

Travel Percentage Required: Minimal & Usually Local to Vendors. 0% -5%

An award-winning Tampa Bay small business for two decades, Custom Manufacturing & Engineering, Inc. (CME®) delivers Engineering, manufacturing, test, and calibration/repair services to Government and Industry. Join us at CME, where one can "Use Our Expertise to Design & Build Your Solutions" CME’s culture is embodied by Core Values that are focused on: Serving the customer while protecting CME, delivering quality products and services as required, solving problems, working with energy and passion, and encouraging and developing employees that challenge themselves.

As a strong supporter of Science, Technology, Engineering and Math (STEM) and other select charitable initiatives, CME promotes and encourages employee community support to nonprofit organizations or educational institutions, especially for mentoring and school/student support. Most of CME’s products and services are focused on the development and manufacturing of energy efficient and sustainable products such as more efficient power supplies, intelligent power distribution units, energy saving solar panels, and other electronic systems, end products, or components. (www.custom-mfg-eng.com).

CME is an Equal Opportunity/Affirmative Action Employer. All qualified applicants will receive consideration for employment without regard to race, color, religion, sex, pregnancy, sexual orientation, gender identity, national origin, age, protected veteran status, or disability status.

As a U.S. defense contractor CME is also subject to additional rules and regulations regarding the hiring of foreign persons. In compliance with U.S. federal law, all persons hired will be required to verify identity and eligibility to work in the United States; CME cannot accept any person for employment who does not meet employment eligibility requirements, E-Verify verification, and/or is in the U.S. under a student (F1 and/or OPT, J1, orM1) and/or temporary work visa. For the purposes of clarification, the I-9 defines eligibility of an employee as a: U.S. citizen, permanent resident card or alien registration card (Form I-551), a person with a temporary I-551 stamp on their passport or U.S. immigrant visa, and/or passport from the Federated States of Micronesia (FSM) or Republic of the Marshall Islands (RMI) with Forms I-94 or I-94A indicating nonimmigrant admissions under Compact of Free Association between the U.S. and FSM or RMI.

Removal Date: 1-July-2021
The application period is now open for the Watermark Scholars program!

Watermark is offering women in STEM scholarships for the fall 2021 academic term to provide much-needed support for college students pursuing Science, Technology, Engineering, or Mathematics (STEM)-related studies and careers.

Two students will be selected from the pool of applicants, and awardees will each receive $5,000 to help continue their education.

**Share the Opportunity With Your Students!**

To participate in the Watermark Scholars program, applicants are asked to submit either a written essay, up to 500 words, or a short video on the topic of “Who has inspired you to pursue a career in science or technology, and what do you want to achieve upon graduation?” We’re looking for students who have been inspired by recent events and changes in learning and want to make a difference in their careers!

We’re asking you to help us share this opportunity with your students by posting this link on your institution’s website and sharing it with the appropriate internal resources: [https://www.watermarkinsights.com/watermark-scholars/](https://www.watermarkinsights.com/watermark-scholars/).

The deadline to submit entries is **July 15, 2021**, and awardees will be notified in August.
Women in Cybersecurity

KnowBe4 is dedicated to helping increase the percentage of women in our organization and in the entire cybersecurity industry. As part of our efforts, we offer a yearly $10,000 scholarship and (ISC)2 certification package, which is open to any woman who is currently pursuing a degree in cybersecurity. Applications open in November 2021. Check back here for more details once the applications open!

Applications open November 15, 2021

Black Americans in Cybersecurity

In our efforts to increase diversity in the cybersecurity field, we offer a yearly $10,000 scholarship and (ISC)2 certification package, which is open to any American of Black heritage who is currently pursuing a degree in cybersecurity. Applications open in February 2022. Check back here for more details once the applications open!

Applications open February 2022

U.S. Military, Veterans and Spouses in Cybersecurity

As part of our ongoing commitment to veterans and their families, we host a yearly $10,000 scholarship and (ISC)2 certification package, which is open to any United States veterans, Guard, Reserve, or their spouses who are currently pursuing a degree in cybersecurity. Applications open June 14th, 2021 and will close August 30th, 2021. Check back here for more details once the applications open!

Applications open June 14th, 2021

#GirlsClub Scholarship

We partner with #GirlsClub to sponsor two women a year to join #GirlsClub’s certification and networking program. This sales-focused program includes six months of leadership training, sales mentorship, networking opportunities with other women in sales, and a certification upon completion of the program. Applications open late 2021. Check back here for more details once the applications open!

Applications open late 2021

For more information visit here.
Upcoming Hackathons

5G Edge Computing Challenge with AWS and Verizon
GOAL: Submit your ideas for a creative application you plan to build in Round 2 that displays the benefits of AWS infrastructure running on Verizon’s 5G Edge. (200 will advance to Round 2)
ROUND 2: Build out your Round 1 Idea with special access to AWS Wavelength and Verizon 5G
PRIZES: $50,000 in prizes
IDEA DEADLINE: May 2, 2021 11:45PM EDT

The Worthy Web App Challenge
GOAL: Build or modernize a web app that is designed in some way to make the world a better place using Telerik UI for Blazor, Kendo UI for Angular or KendoReact front-end components.
PRIZES: $40,000 in prizes
DEADLINE: May 24, 2021 4:00pm EDT

Here is an additional hackathon:
May 24 (Theme: IoT, Social Good): Microsoft U.S. Azure IoT Hack for Sustainability (U.S. Only)