Dear CSE Students:

Welcome to the fourth newsletter of the Fall 2020 semester.

**Message from the UG Advisor:**

**CSE Undergrads:** Registration has been open for several weeks. Your schedule should be set. If you are not registered for a full schedule, please see the attached message regarding the course needs survey. This is especially important if you plan to graduate in spring or summer of 2021. Online walk-in advising periods are available from John Morgan and Marjorie Fontalvo. Please see the link for times and details. [Online Walk-in Advising](#) **FALL 2020 graduates:** Exit Surveys are due Dec. 4th. Check your email for a message with all the details from CSE Undergraduate Program Specialist, Mayra Morfin. **SPRING & SUMMER 2021 graduates:** Graduation checklist were due at the end of October. If you plan to graduate in spring or summer 2021, please refer to the page below for instructions and to secure permits for courses necessary for graduation. [Graduation](#)

**Message from the Grad Program Assistant:**

• Registration for Spring 2021 is underway. If you have holds on your account, you cannot register until the holds are removed. The SI and IM holds are removed by Student Health Services. Please see the website for details [https://www.usf.edu/student-affairs/student-health-services/holds/](https://www.usf.edu/student-affairs/student-health-services/holds/)

• If you need a permit for a class, you need to submit the COMPLETED plan of work for approval first. If approved, I can issue permits for classes in our department. For classes in other departments, you will need to contact that department to get a permit.

• Once I send you the approved plan of work and I issue you a permit, that means the course has been approved to count towards your degree. However, you should still contact the instructor and make sure you meet any prerequisite or background requirements to take the course.

• For PhD students who are planning to apply for candidacy, you must schedule your major area presentation and submit all your documents to me by December 1, so that they can be processed before the last day of classes (12/4).

• If you need to register for thesis, independent study, or directed research, you must submit a signed grad contract to me, and I will register you for the course.

• Students planning to graduate in Spring 2021 should check your OASIS account now to make sure you do not need to submit a course transfer, change of major, or any other forms that may hold up your graduation if you wait until spring to submit them. If you plan to graduate in Spring 2021, you must be registered for at least 2 credit hours.

Attached are announcements for the following (please note that this listing does **not** imply University or Department endorsement):

• Spring 2021 Registration Message
• Developer Student Clubs New E-Board Position Available
• Google Student Newsletter
• hackGSU Hackathon
• Create the Trophy Competition
• Los Alamos National Laboratory High Performance Computing Internship Opportunities
• Pathways to Science Research and Graduate Program Opportunities
• AccessComputing Research Workshop for Students with Disabilities
• TheIncLab Job Opportunities

Regards,

Ken Christensen
Professor and Associate Chair of UG Affairs
Dear CSE student,

Registration for spring is ongoing and has been open for a couple of weeks. By this point, all CSE students should be registered. If you do not have a full schedule, please use the short survey linked below to provide details about your situation by Monday, 23rd with details about your situation.

Course Needs Survey

We may ask you to visit us during one of our online walk-in advising periods, if more information is needed.

Online Walk-In Advising

Our goal for every student is to have a full schedule in order to graduate in a timely fashion. The best way to graduate on time is to follow the eight-semester plan in the catalog. This requires planning and being mindful of the demands on your time and the practices you pursue to be successful in your courses. Actions which cause you to depart from the course sequence can impact your options in future semesters. You can view the flowchart for your major and catalog year by accessing the page linked below.

CSE Flowcharts

Spring and summer 2021 graduates: Graduation checklist were due at the end of October. If you plan to graduate in spring or summer 2021, please refer to the page below for instructions and to secure permits for courses necessary for graduation.

Graduation

If you need to respond to this message, please start a new email and send to jpmorga2@usf.edu.
New E-Board Position Available

Developer Student Clubs
University of South Florida
Powered by Google Developers

Accepting applications for the Technical Lead role in Developer Student Club at USF

Requirements:
- Ability to host event workshops
- Willingness to learn and conduct workshops,
- Lead projects by assisting members
- Interest in Google technologies is a plus
- Technical knowledge
- Preferably an engineering student with skills in computer science
- Any class year with the skillset of a junior/senior/graduate student

The position is open to all majors and graduate levels within the university

Application Due by
Sat, November 21, 11:59 pm (EDT)
https://forms.gle/akCQd29RESn7MwCf7
Hello from Google

Autumn has arrived, which means it’s time for pumpkins, Artificial Intelligence, and scholarship deadlines!

Are you a current undergraduate or graduate student studying at an accredited university in the United States or Canada for the next academic year (2021-2022)? If you answered yes, make sure to check below for information on Generation Google Scholarships.

We invite you to be a part of Google’s mission to organize the world's information and make it universally accessible and useful by helping create artificial intelligence (AI) that better understands language and cultures through our Crowdsourcing community. It’s a fun, easy way for you to use your own abilities to contribute to the building blocks of AI and help Google learn about how autumn is celebrated globally, everything from Day of the Dead to Diwali.

The only thing cooler than a November breeze is earning free Google Cloud labs skill badges, just in time for cooler weather. Read below to find out about Google Cloud labs on Qwiklabs.

We’ll be back next month to share more updates and information. In the meantime, consider joining Connect with Google and email techstudents@google.com with any questions.
Careers OnAir Virtual Events

Each month we host a variety of virtual workshops and discussions with Googlers to provide professional and technical skill building resources, as well as an inside look at Google's culture. Head to careersonair.withgoogle.com to register and add our upcoming sessions (highlighted and linked below) to your calendar. Googlers will also be answering questions live via chat for most sessions.

PhD at Google

November 11 & 12 @ 4:00 PM PT / 6:00PM CT / 7:00PM ET

Are you a technical PhD student interested to learn more about Google opportunities? Tune in to our virtual event series to learn about life at Google for PhDs and hear from our Systems Infrastructure team. Google recruiters will be available to answer your questions live via chat.

Google’s Veteran Career Series

Available on demand now

We’re excited to launch our first ever virtual series for the US veteran community. This series is open to any active duty US service member or veteran, regardless of education level, date of separation, or years of experience in any industry. Check out our previously aired panels and the Q&A, available on demand. Any and all members of the veteran community are welcome to tune in.

Google American Indian Network (GAIN) Panel @ AISES Conference

Available on demand now

In October 2020 the Google American Indian Network (GAIN) partnered with the American Indian Science and Engineering Society (AISES) to host a panel with Googlers. To celebrate Native American Heritage Day on Nov 27th we invite you to listen to that panel discussion. Hear our Googlers share their careers paths, key learnings they gained along the way, and advice they have for building a more inclusive tech industry.

More On Demand

Missed an event? Check out these videos available on demand!

Navigating a Tech Offer
Resume & Beyond: Standing out Online
Preparing for Technical Interviews
Imposter Syndrome
Accessibility at Google
Keeping it Clean: The Art of Clean Code with Google
Skill-Building

**Earn Google Cloud labs skill badges on Qwiklabs for free!**

Use the [free Qwiklabs](https://qwiklabs.com) offer to earn a [skill badge](https://cloud.google.com/badges), a new digital badge issued by Google Cloud, in recognition of an individual's cloud proficiency with a Google Cloud product or service. As you [progress through the recommended trainings](https://cloud.google.com/products/compute) in your certification journey, you can earn a skill badge by completing a series of hands-on labs and a final assessment challenge lab.

*Google Cloud labs on Qwiklabs is free for 30 days, through the remainder of 2020!*

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**Role Spotlight**

**Cloud Technical Residency**

*Looking for a full-time job? CTR applications are open!*  
Google’s Cloud Technical Residency program is a full-time role for graduating students, based in Austin, TX and Atlanta, Ga, with project rotations and exposure to cloud-based roles within Customer Engineering, Professional Services, or Cloud Support. If you are interested in customer-facing roles that also utilize your technical skills, check out the Careers OnAir [Cloud Technical Residency](https://cloud.google.com/careers/onair) video for more information.

*How to Apply: [Click here to apply!]*

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**Crowdsource by Google**

*Help make AI serve everyone, everywhere*  
[Crowdsource](https://cloud.google.com/crowdsource) is a fun, easy way for you to use your own abilities to contribute to the building blocks of Artificial Intelligence (AI). This helps us make the Google Products that you love even better for your language, region and culture. Answers from you and millions of others around the world are used in Machine Learning based products, making them work well for the diversity of the global population.
Simple and fun activities

Spotting food or animals in photos, identifying the emotional impact of sentences in your own language, and so much more! Crowdsource has many fascinating and fun activities for you.

Level up as you earn badges and milestones on the leaderboards

As a member of the global Crowdsource community, you can earn cool badges, level up on the leaderboards, and gain recognition from other Crowdsourcers and Google.

Join the global Crowdsource community

Tune into local Crowdsource community events, or organize your own. Be a part of the expanding Crowdsource revolution.

#IamRemarkable Week

Celebrate your achievements

Being able to showcase and speak proudly about the value we bring is essential to our success. #IamRemarkable Week, running November 12-19, is a digital experience encouraging you to acknowledge, celebrate and express your own achievements. Attend virtual talks and panels with influential thinkers, creators and top business leaders - explore the program schedule for further details and to sign up. We also invite you to power through the #IamRemarkable Week Challenges to boost your confidence and learn how to express your achievements. Track your progress and encourage others to join you in this adventure.
Student Scholarships

Generation Google Scholarship
At Google, we believe information should be universally accessible. Our education and scholarship programs aim to support students in computing, gaming, and closely related fields by breaking down the barriers that prevent them from entering these fields. If selected, scholarship recipients will each receive a $10,000 USD (for US institutions) or $5,000 CAD (for Canadian institutions) scholarship for the 2021-2022 school year.

Please see below for a list of open scholarships:

Generation Google Scholarship: The program is open to students who meet all the minimum qualifications and we strongly encourage students that identify with groups historically excluded from the technology industry, including Women, Black/African American, Hispanic/Latinx, American Indian, Native Hawaiian/Pacific Islander, to apply. **Deadline: December 4, 2020.**

Generation Google Scholarship: for women in gaming (formerly known as the Women Techmakers Scholarship Program). Generation Google is excited to announce a partnership with Stadia, Google's all new gaming platform. We’re expanding our Scholarship Program to support students pursuing gaming degrees to advance gender equality in gaming. The program is open to students who meet all the minimum qualifications and we strongly encourage women to apply. **Deadline: December 4, 2020.**

Google Lime Scholarship is open to current undergraduate or graduate students with disabilities who will be studying at an accredited university in the United States or Canada for the 2021-2022 academic year. **Deadline: December 4, 2020.**

Google Student Veterans of America Scholarship is open to current undergraduate or graduate student veterans who will be studying at an accredited university in the United States for the 2021-2022 academic year. **Deadline: December 4, 2020.**

For questions and complete details on all of our scholarships, please visit [g.co/scholarships](g.co/scholarships).

Thinking about going to grad school?
If you're considering grad school, the [GEMs Fellowship program](https://www.google.com/scholarships) might be a good fit for you. GEMs provide living stipends, help pay for grad school at select universities, and work with companies for internship placement. The GEMs Fellowship application deadline is November 13, 2020. **Google is not affiliated with the GEMs Fellowship program.**

Getting to know Google

Helping Googlers tackle student loan debt
Though student loan debt is an issue globally, Americans in particular face an enormous student loan deficit—$1.5 trillion dollars, twice what it was a decade ago. This burden disproportionately affects women and communities of color. We’re introducing a student loan repayment program for all Googlers in the U.S. Starting in 2021, Google will match up to $2,500 per Googler per year in student loan payments to help them pay off their student loans faster, allowing them to save money to use in other ways, whether it’s purchasing a new home, starting a family, or investing in a 401(k).
Change starts at home. We’re hoping this student loan repayment program gives our workforce some relief from student loans and helps them build more financial stability over the long term. To learn more, read the full blog post here.

Faculty Corner

Cloud in the Classroom: Faculty Institute 2020

See how faculty are building cloud computing skills with their students using free educational programs and curriculum from Google Cloud.

Here is a peek at some of the program demos, faculty panels, and interactive training sessions available. Learn more and register to watch on demand here.

- Connecting With Your Student Community: DSCs and Hackathons
- Cloud in the Classroom: Skill Badges & Learning Paths for Today’s Job Market
- Panel: Diversity in STEM: Google Faculty in Residence Experiences
- Panel: Big Data and AI in the Classroom with Google Cloud

Kick Start 2020, A Global Coding Competition

Kick Start is one of our global online coding competitions, offering programmers of all levels the opportunity to hone their skills through a series of exciting algorithmic and mathematical problems designed by Google engineers. Each round starts fresh, so you can participate in any and all upcoming rounds.

Participate in the upcoming round, Round H on November 15 (add the round to your calendar)!

Looking to brush up on your coding skills beforehand?
Check out Coding Practice with Kick Start! Work your way through five algorithmic and mathematical problems on the Kick Start platform. This practice session is not an official Kick Start round but a great way for you to engage with the Kick Start platform, connect with your peers, prepare for an interview, and most importantly have fun!

Visit google.com/students for programs and opportunities

What did you think of this Newsletter? Leave your feedback in this super quick survey! 😞😞😞😞
hackGSU
NOVEMBER 20 - 22
2020

Fall 2020 Hackathon
HACKGSU.COM

Presented by
GSU Computer Science Department
acm & icce & girls++
student organizations

Registration: http://www.hackgsu.com
CREATE THE TROPHY

21 Sep – 21 Dec 2020

WIN a state-of-the-art laptop and the chance to see your trophy being presented to the winners of the 2021 Queen Elizabeth Prize for Engineering.

Competition is now open!*

Queen Elizabeth Prize for Engineering

*Open worldwide to entrants aged 14-24
Los Alamos National Laboratory - High Performance Computing Internship Opportunities

Supercomputer Institute

The Supercomputer Institute is an intense, paid, 11-week, hands-on technical internship for people of all majors interested in the growing field of high-performance computing. You will obtain a thorough introduction to the techniques and practices of HPC; no HPS experience is required.

- The website provides an overview of the program
- Projects from previous years are shown here
- Typical participants are undergraduate and graduate students.
- **Deadline to apply is December 1st, 2020!**

Here are some links that may also prove helpful:

**High Performance Computing Intern Career Resources**
- It lists our HPC intern salaries
- Intern resources
  - Living in Los Alamos
  - Hiring process
  - LANL Student Association
- Housing resources

**High Performance Computing (HPC)**
- This will give you some insight into what our Division does within LANL.

**Secret City Summer Concerts**
- Every summer a highlight of town is this concert series. Everyone comes out to enjoy these free concerts located in the heart of Los Alamos, our Ashley pond.

**Pajarito Skill Hill**
- While you would be here for the summer, our ski hill has a summer festival that is attended by many.

Our small town is full of things to do from a local maker space, Tuesday Ted Talks, local theater groups, a kite festival, weekly farmers market, a free nature center and a ton of outdoor activities (soccer, ultimate frisbee, hiking, biking, etc.) You can see some of these events on the Los Alamos Intern Guide.

Julie Wiens
HPC-DO Intern Recruiter/Liaison
jwiens@lanl.gov
Pathways to Science: STEM summer research & fully funded graduate programs

Thanksgiving break is a great time to work on applications! PathwaysToScience.org is an excellent resource for finding both paid summer research programs and fully funded STEM graduate programs. Use the website to search:

- 630 paid summer research programs for undergrads and grad students, including opportunities funded by NSF, NASA, NOAA, etc.
- 138 fully funded STEM masters programs
- 160 fully funded STEM PhD programs

For help finding programs, view this quick video tutorial on how to use the advanced search page: https://www.youtube.com/watch?v=FxKsAGk8dAw&t=16s

Best of luck and happy Thanksgiving!
AccessComputing Research Workshop for Students with Disabilities

AccessComputing is planning a research workshop in early 2021 for undergraduates with disabilities interested in computer science research. More details and a link to the application is below.

AccessComputing is a National Science Foundation project that works to increase the participation of people with disabilities in computing education and careers.

**OurCS@AccessComputing+CREATE**

OurCS@AccessComputing+CREATE is a research-focused workshop for undergraduates with disabilities in computing fields to be held virtually on Wednesday, January 13 through Friday, January 15, 2021, 9 am – 12 pm Pacific Standard Time (PST).

Students with disabilities nationwide in computing fields are eligible to apply. Students will participate in research explorations designed to inspire participants to consider research careers and meet mentors with disabilities.

Students who participate in the entire program will receive a $50 stipend. Funding for this workshop is provided by [Google Explore CSR](https://www.google.com/csr) with additional support from [AccessComputing](https://www.accesscomputing.net) and the Center for Research and Education on Accessible Technology and Experiences at UW (CREATE).

For full consideration, please complete the [OurCS@AccessComputing+CREATE application](https://www.accesscomputing.net) by December 1. Find more information on the [AccessComputing website](https://www.accesscomputing.net).
Lead Software Developer
TheIncLab – McLean, VA
TheIncLab is a team of engineers, developers, and artists that collaborate to deliver our clients’ vision. We are looking for an experienced software developer to join us. As a lead software developer, you will be tasked with creating, testing, packaging, releasing, and scaling software. You will work with our production team to build secure and scalable applications that will be cyclically released to UX teams, QA testers, and clients.

Responsibilities:
- Brainstorm with production team to define software architecture and patterns that fit project requirements
- Work with production team to create modules and feature services
- Design and execute automated tests on applications
- Work in AGILE development approach to iteratively release code in development sprints
- Deploy applications and databases in a secure cloud environment
- Scale application to accommodate growth of users and/or requests
- Use Git, test suites, CI/CD, and other tools to maintain codebase
- Develop and tweak production workflows to make the team more efficient

Must Haves:
- Knowledge of microservices architectural patterns
- Experience in or a willingness and ability to learn NodeJS
- Strong knowledge of AGILE development practices such as release automation and CI/CD
- Experience working with Docker
- Experience working on a team using Git
- Ability to obtain a security clearance

Qualifications:
- Ability to effectively communicate, collaborate, and learn in a team
- Strong critical thinking, problem solving abilities, and decision-making skills
- A bachelor’s degree in Computer Science, Computer Engineering, or a related technical field
- Preferred, but may be trained based on level of knowledge and interview; 3 or more years of experience in software engineering, or equivalent projects experience in software development or DevOps.
- A track record of developing and deploying scalable and secure back-end services
- Knowledge of service logging with Logstash, Elasticsearch, and Kibana
- Proficiency working with and deploying data stores (PostgreSQL / MongoDB)
- Knowledge of major cloud providers such as AWS / Azure

This is a full-time position based in McLean, VA. No relocation assistance offered.
To apply, please send your resume and cover letter to jobs@theinclab.com
DevOps Engineer
TheIncLab – McLean, VA

TheIncLab is a team of engineers, developers, and artists that collaborate to deliver our clients’ vision. We are looking for a DevOps engineer to join us. As a DevOps engineer, you will be tasked with testing, packaging, releasing, and scaling software. You will work with our production team to build secure and scalable applications that will be cyclically released to UX teams, QA testers, and clients.

Responsibilities:

- Brainstorm with production team to define software architecture and patterns that fits project requirements
- Work with production team to create modules and feature services
- Design and execute automated tests on applications
- Work in AGILE development approach to iteratively release code in development sprints
- Deploy applications and databases in a secure cloud environment
- Scale application to accommodate growth of users and/or requests
- Use Git, test suites, CI/CD, and other tools to maintain codebase
- Develop and tweak production workflows to make the team more efficient

Qualifications:

- Ability to effectively communicate, work and learn in a team
- Strong critical thinking, problem solving abilities, and decision-making skills
- A bachelor’s degree in Computer Science, Computer Engineering, or a related technical field
- Preferred, but may be trained based on level of knowledge and interview; 3 or more years of experience in software engineering, or equivalent projects experience in software development or DevOps.
- A track record of developing and deploying scalable and secure back-end services
- Strong knowledge of AGILE development practices such as release automation and CI/CD
- Experience in or a willingness and ability to learn NodeJS
- Experience working with Docker
- Experience working on a team using Git
- Proficiency working with and deploying data stores (PostgreSQL / MongoDB)
- Knowledge of service logging with Logstash, Elasticsearch, and Kibana
- Knowledge of major cloud providers such as AWS / Azure
- Knowledge of microservices architectural patterns
- Ability to obtain a security clearance

This position can be based in either our McLean, VA or Tampa, FL offices. No relocation assistance offered.
To apply, please send your resume and cover letter to jobs@theinclab.com
UX / UI Designer

TheIncLab is an engineering and design company that delivers incredible interactive exhibits and prototypes. We are looking for UX / UI Designer to join our team.

As a UX/ UI Designer, you will be tasked with creating the look and feel of the user interface of software prototype development projects. You will also design the interaction between the user and application through processes such as user flows and wireframes. You will have the opportunity to work with a multi-disciplinary team of designers, developers, and engineers to bring powerful concepts to reality.

Responsibilities:

- Work closely with clients to understand their intent and needs for the application
- Create intuitive user interfaces that are accessible to users that have limited technical proficiency
- Design user experience through user flows, process flows, wireframes, and storyboards
- Mock up static UI storyboards
- Create interactive wireframe prototypes using tools such as Balsamiq, Sketch, Adobe XD, or Axure
- Collaborate with the development team to deliver assets needed for implementation
- Iterate on the design based on client feedback

This role is for you if you:

- Enjoy visual storytelling
- Can understand constraints on both the technical and business side and design according to them
- Have empathy for users of your application and take the time to research their needs
- Can anticipate needs of teammates to provide resources to them
- Are excited to learn about new technologies and client industries
- Can take ambiguity and create tangible options

Qualifications:

- BA/BS degree in Design (e.g. interaction, graphic, visual communications, product, industrial), HCI, CS, or a related field or equivalent practical experience
- Preferred, but may be trained based on level of knowledge and interview; 3 or more years of experience in software engineering, or equivalent projects experience in software development or DevOps.
- Demonstrated experience in product teams
- Proficient with industry standard design tools (e.g. Photoshop, Illustrator, Sketch)
• Demonstrated experience in designing for a variety of platforms (desktop, mobile, web)
• Knowledge of design in web development (CSS3) is preferred but not required

Please include a URL for an online portfolio in addition to your resume. Submissions with a portfolio will be given more consideration.

This position can be based in either our McLean, VA or Tampa, FL offices. No relocation assistance available.