**<u>COC / TSO STAFF</u>**: The CoC Technology Services Organization (TSO) provides computing, networking and physical infrastructure, as well as technical and building support for all of the College's programs: Research, Instruction and Administration. Here are the primary points of contact along with respective areas of responsibility.

Name	Email	Room	Phone	Position	Area of Responsibility
Uwanna Smith	uwanna@cc	CCB 242	894-9678	Director	<ul> <li>Enterprise services: web &amp; help desk</li> <li>Facilities building support</li> </ul>
Chad Huneycutt	chadh@cc	CCB 244a	385-6696	Associate Director	<ul> <li>Research computing: research lab technology, high performance computing, grad student desktops</li> <li>Instructional computing</li> <li>Critical servers &amp; network</li> </ul>
Tonya Gordon	dunson@cc	CCB 240	385-0364	Senior IT Project Manager	<ul> <li>Instructional Resources &amp; Tech Fee</li> <li>Licensing &amp; Legal Matters</li> <li>Asset Management</li> </ul>
David Mercer	dmercer@cc	CCB 233	385-2518	IT Support Professional	<ul> <li>Instructional Program Support: instructional labs, desktops, servers, applications</li> </ul>
Brian Crowell	bcrowell@cc	CCB 148	894-7065	Manager, Helpdesk	CoC, KACB & TSRB Help Desk     Faculty & Staff desktops

(See http://support.cc.gatech.edu/inside-tso/staff for a complete listing of TSO Staff.)

**COMPUTING SERVICE PROVIDERS @ GT:** There are 2 computing service providers available to you at GT.

- 1. Office of Information Technology (OIT): provides technology services for all of GT.
- 2. Technology Services Organization (TSO): provides local technology services for CoC.

Service Provider	Locations	Type of Service	Help References
OIT	GT Library (ground floor west)	Centralized GT computing & networking support	Web:       http://www.oit.gatech.edu/         FAQ:       http://faq.oit.gatech.edu/         E-mail:       support@oit.gatech.edu/         Phone:       404-894-7173         Hours:       8AM-6PM, M-F
TSO	Help Desk located in: • CCB 148 • KACB 3123 • TSRB 347	CoC specific computing & networking support	Web:       http://support.cc.gatech.edu/         FAQ:       http://support.cc.gatech.edu/support-tools         E-mail:       helpdesk@cc.gatech.edu         Phone:       404-894-7065         Hours:       8AM-4PM, M-F         AIM:       tsohlpdsk

Please subscribe to these IMPORTANT System Notice e-mail lists:

- OIT: https://lists.gatech.edu/sympa/info/oit-availability
- TSO: https://lists.gatech.edu/sympa/info/cc-tso-availability

#### USEFUL INFO CAN BE FOUND ON THE TSO WEBSITE: http://support.cc.gatech.edu/

- · Download the document you are now reading
- Frequently Asked Questions (FAQs)

Learn about TSO Services

- How to Do things (Howtos)
- Learn about CoC Computing Facilities
- Request resources using online forms

**POLICIES AND PROCEDURES:** Read the GT Computing & Networking Security Policy and Procedures.

- We know it's boring, but these policies **WILL** affect your computing life at GT and the College of Computing.
- COMPLETE COC POLICIES CAN BE FOUND AT: <u>http://support.cc.gatech.edu/support-tools/pnp</u>
- The use of GT computers and networks constitutes agreement to these policies.

Document	What Is This All About?	Online Reference
GT Computer & Network Usage and Security Policy ( <b>CNUSP</b> )	Outlines employee and student ethical and professional behavior requirements for the protection of the GT information technology resources.	http://www.oit.gatech.edu/sites/default/files/CNUSP_new.pdf
GT Computer & Network Usage and Security Procedures	Provides specific requirements to protect GT information technology resources and data while appropriately governing employees' and students' behavior.	http://www.oit.gatech.edu/sites/default/files/CNS_Procedures new.pdf
CoC User Account and Access Policy	Rules for CoC user account eligibility, expiration, behavior	http://support.cc.gatech.edu/support-tools/pnp/coc-user- account-policy

#### **USER ACCOUNTS:** You have both a GT user account and a CoC user account.

Account Type	Account Format	Apply	Activate	Passwords, Remote Access, Disk Quota, Web Pages
ĞŤ	flastXXX (f = first initial, last = last name, XXX = 2 or 3 digit #).	No need to apply. Your account is automatically created.	Go in person to the Resource Center, Library West (ground floor). Bring a picture ID.	<ul> <li>Password expires every 90 days.</li> <li>Reset with <u>http://passport.gatech.edu/</u></li> <li>Remote access only w/SSH, SSL, IMAPS, POPS</li> <li>Personal web page in ~/public_html w/live updates <u>http://www.prism.gatech.edu/~accountname</u></li> <li>Most campus services require your GT account</li> <li>CoC Instructional Labs require your GT account</li> </ul>
CoC	Will be the same as your GT account	You must apply online (see the link to the right).	No activation necessary. You will receive email when the account is ready to use.	<ul> <li>Apply for account online at the following web page: http://support.cc.gatech.edu/resources/forms/account-creation</li> <li>Password reset here: https://support.cc.gatech.edu/resources/forms</li> <li>Most CoC systems require your CoC account. CoC is in the process of migrating its systems to use your GT credentials.</li> <li>Ask your lab manager to request access for research lab systems</li> <li>Remote access only w/SSH, SSL</li> <li>4GB home directory quota, 200MB web page quota</li> <li>Personal web page in your home directory ~/.www-home http://www.cc.gatech.edu/~accountname</li> <li>Always store data in your home directory (typically the H: drive on Windows).</li> <li>Don't store files on local desktop disks (C: on Windows). Desktop systems are not backed up!</li> </ul>

**<u>E-MAIL ACCOUNTS AND MAILING LISTS</u>**: As a graduate student, you have access to several GT email addresses. Your @cc.gatech.edu email addresses are forwarded to your GT/OIT mail address. Your GT/OIT mail is delivered either to the external email address of your choice or to your opt-in MS Office 365 mailbox.

- Be sure to *install virus protection software* (MS Security Essentials for Windows or Sophos for OSX).
- Do not open e-mail attachments or run software from unknown or untrusted individuals or sources.
- Do not respond to phishing emails that ask you for your GT passwords or personal information.
- TSO operates a Microsoft Exchange server for faculty and staff only.

Туре	Email Address	Access
GT/OIT	<u>accountname@gatech.edu</u> alias@gatech.edu	<ul> <li>Webmail: <u>https://office365.gatech.edu/</u></li> <li>IMAP: Refer to the OIT FAQ website, http://faq.oit.gatech.edu/</li> <li>Setup your <u>alias@gatech.edu</u> at <u>http://passport.gatech.edu/</u></li> <li>Mailing lists are available at at <u>http://lists.gatech.edu/</u></li> </ul>
CoC	accountname@cc.gatech.edu first.lastname@cc.gatech.edu	<ul> <li>These email addresses are automatically forwarded to your GT/OIT email address.</li> <li>Mailing lists are available at http://lists.cc.gatech.edu/</li> </ul>

**DATA CENTERS:** There are several data centers operated by TSO and OIT that house instructional and research servers that you may have access to, such as file servers, database servers, web servers, project servers, high performance computing servers and more.

Туре	Name	Location	Use
TSO	KACB Data Center	KACB 2219	Critical "core" servers
TSO	CCB Data Center	CCB 247	Instructional & Research servers
TSO	HPCF Data Center	CCB 259	Research servers
TSO	TSRB "MDF" Data Center	TSRB Basement	Research servers
OIT	Rich Data Center	Rich Building	Administrative, Instruction, Research servers
OIT	Business Continuity Data Center	845 Marietta St.	Business continuity servers

**<u>REMOTE LOGIN SERVERS</u>**: There are several remote login servers that you can access using secure protocols like SSH (e.g. via SecureCRT on Windows, a terminal on Linux, Terminal.app on Mac OS X).

• There are also specific Research Area server and disk resources that you can obtain access to by being involved in those groups. Requires faculty permission from the area. Ask your Research Lab Manager.

Туре	Name	Туре	OS	Use
CoC	killerbee1 killerbee2 killerbee3 killerbee4	IBM System x3550 M4 Server (2 x 2.3GHz Intel Xeon, E5-2630 6-core, 64 GB memory, 120 GB SSD disk)	Red Hat Enterprise Linux	<ul> <li>Available to all CoC grad students</li> <li>Login using CoC account</li> <li>General purpose interactive computing</li> <li>Not intended for instructional use</li> <li>No heavyweight computing please</li> <li>Use the "nice" command</li> </ul>
CoC	shuttle1 shuttle2 shuttle3 shuttle4 shuttle5	Supermicro Server (2 x 2.4GHz Intel Xeon E5620 4-core, 24 GB memory, 80 GB SSD disk)	Red Hat Enterprise Linux	<ul> <li>Available to all CoC students</li> <li>Available to students enrolled in a CS course</li> <li>Login using GT account</li> <li>Instructional / Class use ONLY</li> </ul>

**RESEARCH AND INSTRUCTIONAL HIGH PERFORMANCE COMPUTING (HPC):** CoC has a number of remotely accessible research-related High Performance Computing (HPC) resources located in CoC Data Centers for the purpose of performing computational work.

- Research HPC resources have been purchased by faculty for specific research area needs.
- Access to research HPC resources requires faculty or lab manager approval.
- Request access through the TSO Helpdesk (helpdesk@cc)

Cluster Name	Nodes	Cores	Description	Operating System	Research Group
Bugs	6	48	<b>4 Dell PowerEdge 1950</b> (2-socket, 4-core, 2.5GHz Intel E5420, 16GB RAM) <b>2 Dell PowerEdge 2950</b> (2-socket, 4-core, 2.66GHz Intel E5430, 32GB RAM)	Red Hat Enterprise Linux 6	CSE, Data Mining and Information Retrieval Lab
lon	8	64	<b>4 Appro Twin-Servers</b> , <u>GPU Accelerated</u> Each Twin-server contains two systems with 2 x quad-core Intel Xeon X5550 CPUs, 24GB of RAM, and two nVidia C1060 GPU cards	Red Hat Enterprise Linux 5	CSELa, HPC Garage
Jedi	30	360	Penguin Relion 1752 (2-socket, 6-core, 2.66GHz Intel X5650, 48GB	OpenStack	CERCS
	50	400	(2-socket, 0-cole, 2-obs/12 intel x3050, 48GB RAM, cloud stack) Penguin Relion 1702 (2 x 2.4 GHz Intel E5530, 24GB RAM, cloud stack)		
Jinx	24 6	288 48	HP Proliant, <u>GPU Accelerated</u> (2 x 6-core Intel Xeon 5650, Twelve of the nodes contain 2 x Tesla M2070 GPU cards) Dell PowerEdge R710 (2 x quad-core 2.66 GHz Intel Xeon X5550, 48	Red Hat Enterprise Linux 6	Instructional HPC Resource General Research HPC access with faculty sponsorship.
	4	32	GB RAM, 12TB storage) <b>IBM System x3755</b> (4 x dual-core 2.4 GHz AMD Opteron Model 8216, 8 GB RAM)		
Maquis	20	160	IBM BladeCenter H (20 blades x 2 sockets x Core2 Quad)	Red Hat Enterprise Linux 6	CERCS
Pasta	8	96	<b>IBM BladeCenter</b> (8 Blades x 2 socket x 6-core, 2.93GHz HS22 Intel 5670 Westmere)	Red Hat Enterprise Linux 5	Computer Architecture
	2	16 200	Dell PowerEdge R410 (2 sockets x 2.6GHz Core2 Quad X5650 Xeon, 24GB RAM) Dell PowerEdge 1950 III		
Polynesia/	20	180	(2 x 3GHz Core2 Quad) Dell PowerEdge 1950	Red Hat	CERCS
Samoa Rohan	51	102	(2 x 2.8 GHz Dual-Core Xeon) Dell PowerEdge 1850s (2 x 3.2GHz Pentium4 Xeon EMT64)	Enterprise Linux 5 Red Hat Enterprise Linux 6	CERCS
Sushi	14	112	Dell PowerEdge 1950 (2 x 3.0 GHz Xeon 5160)	Red Hat Enterprise Linux 5	Computer Architecture
Topaz	36	288	(2 sockets x 2.66GHz Xeon Quad)	CentOS	CSE
Vogue	11	88	7 Penguin Computing Relion 1700 (2 x Intel E5506, 12GB RAM) 4 Dell PowerEdge R610 (2 x Intel E5550, 12GB RAM)	Red Hat Enterprise Linux 6	CERCS
Factor	9 12	72 144	Dell PowerEdge R610 (2 x quad-core GHz Intel Xeon X5570 48 GB RAM, 7TB of storage) Dell PowerEdge R620 (2 sockets x 2.00GHz Xeon ES-2630L, 128GB	OpenStack	non-Research, Instructional HPC Resource
Whitestar	840	3360	RAM) IBM BladeCenter LS20 (2 x 2.0 GHz AMD Opteron 270, 4GB RAM, cloud stack)	VMware VCenter	CERCS
Wilks	15	180	Stack) Supermicro 6016T-NTF (2-socket, 6-core, 2.67GHz Intel 5650, 96GB RAM)	Red Hat Enterprise Linux 6	IRIM

**INSTRUCTIONAL COMPUTER LABS:** As graduate students of Georgia Tech and the College of Computing you have several instructional computing lab resources available for your use, some operated by OIT and others operated by CoC.

#### Caveats for CoC Instructional Labs:

- All GT/OIT and CoC Instructional Labs use your GT account/password.
- CoC lab machines are reserved at various times for specific classes (observe schedules, leave quickly/quietly when asked)
- Always store data in your home directory (which is mounted as H: drive on Windows).
- Don't store files on local disks (C: on Windows). These systems are not backed up!

Туре	Lab Name	Seats	Equipment	Access
GT/OIT	Library West	Library West 114 • Dell PCs running Windows • Apple Macintosh OS X • Digital media software • Color laser printers, scanners, DV cameras		<ul> <li>All GT students</li> <li>Open daily, closed nights</li> </ul>
GT/OIT	Student Center	39	Dell PCs running Windows     B/W & color laser printers	All GT students     Open 24 hours
CoC	Mac Digital Media and Gaming Lab, CCB104a	14	<ul> <li>12, Custom Intel PCs with Windows</li> <li>2, Apple iMacs, Quad-core Intel Core i5 with OS X</li> <li>Digital media software and equipment</li> <li>Large video scratch disk, DVD+RW</li> </ul>	<ul> <li>Must be taking certain CoC classes</li> <li>Supports CoC digital media, graphics and gaming curriculum</li> <li>Open 24 hours</li> </ul>
CoC	InfoSec Lab CCB104A	16	Custom Intel PCs running Linux     For support of Information Security     Restricted Access	
CoC	<b>1371 TA Lab</b> , CCB108	14	Dell PCs running Windows	For support of CS1371 (non-majors CS course)     Restricted Access, TAs only

**COC RESEARCH LABS:** Extensive computing resources are available to graduate students associated with CoC Research Centers, Labs, Groups and Projects. Talk with your faculty advisor or Lab Manager to obtain access.

- List of Labs and Lab Managers: http://support.cc.gatech.edu/facilities/research-labs
- · Lab Managers are typically fellow graduate students who work to coordinate technical aspects of the lab.
- · Lab Managers can:
  - · Answer simple questions about the research lab and resources
  - Approve login access to related lab desktops, servers, storage
  - · Coordinate equipment issues in the lab (allocation, movement, repairs)
- 1<sup>ST</sup> YEAR GRAD STUDENTS MAKE GREAT LAB MANAGERS...VOLUNTEER, IF INTERESTED!
  - Talk with your faculty advisor to see if there is a need.
    - Most labs already have Lab Managers, so check the web site above.
    - Volunteers ONLY...this is NOT a funded position.
  - Being a Lab Manager is a great way to learn about research projects and the resources they need.
- Research Labs typically have UNIX groups, mailing lists, etc. Talk with your Lab Manager about getting access to those resources.

<u>GRADUATE STUDENT DESKTOPS:</u> Many research labs have desktop PCs running MS Windows, Linux as well as Macs running OS X. Talk with your Lab Manager to obtain access to those resources. TSO maintains managed OS loads that adhere to Institute best practices:

- TSO Managed OS Loads:
  - Windows 7
  - Red Hat Enterprise Linux 6
  - o Ubuntu LTS 12.04
  - Mac OS X (10.8+)
- Authentication will be via CoC or GT user account/password
- Security patches are automatically installed.
- Host-based Anti-Virus, Anti-Spyware and Firewall are active.
- If you need local administrator on of these systems, get authorization through your Lab Manager.

**INLAND/OUTLAND NETWORKING:** Desktops, serves and printers in CoC are typically connected to one of two networks.

Туре	Network Name	Access
CoC	InLANd	<ul> <li>TSO managed and trusted network</li> <li>All baseline equipment use this network</li> </ul>
CoC	OutLANd	<ul> <li>A non-TSO managed and untrusted network</li> <li>Appropriate for specialized research needs that stretch beyond TSO baseline</li> <li>Static IPs</li> <li>Requires faculty sponsorship</li> </ul>

**WIRELESS & WIRED MOBILE NETWORKING:** Using your laptop (or other mobile device) you can access the GT network using wireless technology or using wired *"walk-up"* ports with an Ethernet cable.

Туре	Network Name	Access
OIT	LAWN (Local Area Wireless & Walkup Network). Also known as GTwifi.	<ul> <li>http://www.lawn.gatech.edu/</li> <li>LAWN is available in many GT buildings including all CoC occupied buildings (CCB, KACB, and TSRB)</li> <li>802.11n available in all CoC buildings (CCB, KACB, TSRB)</li> <li>"Wired" wall-ports support LAWN too (faster uploads and downloads)</li> <li>Configure your device with DHCP</li> <li>Configure the network security as <i>WPA2 Enterprise</i></li> <li>If prompted, accept the gtwpa.lawn.gatech.edu certificate</li> <li>Select <i>PEAP</i> as the EAP type</li> <li>Select <i>MS-CHAPv2</i> as the authentication method.</li> <li>Authenticate using your GT account/password</li> </ul>

**SOFTWARE DOWNLOADS:** As a student of GT/CoC, the following software is available for download.

Туре	Available Software	Online Reference
OIT	MS Office 365 Pro Plus (Word, Excel, PowerPoint, Access, and more), Red Hat Enterprise Linux, Webroot Spy Sweeper, Endnote, Mindware, NAG, Mathematica, SecureCRT, WinSCP, WebDrive, Cisco VPN client, X-Win32, Cisco VPN, and more	http://software.oit.gatech.edu/
CoC	MS Windows and other MS software (through MSDNAA program), not Office however.	http://support.cc.gatech.edu/resources/downloads
СоА	Autodesk (AutoCAD, 3ds Max, AliasStudio, Maya, Sketchbook Pro, and more)	http://www.coa.gatech.edu/coa/resources/network/free_cheap_software

Discounted software for purchase is also available:

Туре	Available Software	Online Reference
e-Academy	MS Office and more	http://gatech.e-academy.com/
SRS	MS Office, Adobe, Autodesk, and more	http://www.srs.usg.edu/

#### WEB RESOURCES:

Туре	Resource	Online Reference	
OIT	Personal home page	http://www.prism.gatech.edu/~accountname	
OIT	ISP-like web hosting service Offering general web programming, Drupal, WordPress, Mediawiki, and more. (Only faculty can request sites.)	http://hosting.gatech.edu/	
CoC	Personal home page	http://www.cc.gatech.edu/~accountname	
CoC	General web hosting	http://support.cc.gatech.edu/services/web-hosting	
CoC	<b>Group collaboration servers</b> (for research group home pages, project pages, etc. Offers Drupal, Mediawiki, SVN/TRAC, Mailman, FTP)	http://research.cc.gatech.edu/ http://wiki.cc.gatech.edu/ http://mailman.cc.gatech.edu/ http://svn.cc.gatech.edu/ ftp://ftp.cc.gatech.edu/	
CoC	Web programming server (research projects, etc. PHP, MySQL)	http://www-dev.research.cc.gatech.edu/	

**BUZZCARD ACCESS TO BUILDINGS:** Your BuzzCard provides physical access to CoC Buildings (CCB, KACB and TSRB). All CoC grad students have access to open CCB and KACB exterior doors. For TSRB exterior doors, you need to obtain permission from the School of Interactive Computing. *Access to any other doors is specific to a class or roll, or is granted on an individual basis when faculty or staff request access for the student.* 

**PRINTERS & MOPIERS:** As faculty of the College of Computing you have access to the following general purpose printers and mopiers. For complete printing instructions please refer to <u>http://support.cc.gatech.edu/services/printing</u>.

Printer/Mopier		
Name	Location	Туре
moe	CCB 148	HP LaserJet 4300dtn
dad	TSRB 360 – 3 <sup>rd</sup> Floor North Hallway	HP LaserJet 4300
gvulab	TSRB 208 – 2 <sup>nd</sup> Floor Copy Room	HP LaserJet 8000
uncle-max	TSRB 235 – 2 <sup>nd</sup> Floor North Hallway	HP LaserJet 4300
ccb-1n-mopier	CCB 106	Ricoh Aficio MP 8001
ccb-1se-mopier	CCB 157A	Ricoh Aficio MP 5000B
ccb-1sw-mopier	CCB 108	Ricoh Aficio MP 5000B
ccb-3n-mopier	CCB 342	Ricoh Aficio MP C7500
tsrb-3s-mopier	TSRB Copy Room	Ricoh Aficio MP C5000

• In CCB, obtain paper from TSO Helpdesk. In KACB and TSRB, contact the administrative staff in your school.