

Georgia Institute of Technology
Grants and Contracts Accounting
Service/Recharge Center Rate Studies
4/15/2019

No.	Name of Rate Study	Department	Rate Study Date	Annual Validation Date	Rates		Service
					Basis	Amount	
1.	Center for Nanostructure Characterization	IMaT	10/13/14	9/19/18			<u>Educational Institutions</u> Tier Structure where total rates decline per group for each machine as usage increases
							Tier 1 (1st 0-100 Hours / Machine)
					Hour	\$132	Personal Services-Director
					Hour	\$94	Personal Services-Research Scientist
					Hour	\$31	LEO 1530
					Hour	\$34	LEO 1550
					Hour	\$20	Hitachi SU8010
					Hour	\$32	JEOL 100CX-2
					Hour	\$44	JEOL TEM 4000EX
					Hour	\$45	Hitachi HF-2000
					Hour	\$80	Tenaci F30
					Hour	\$15	Atomic Force
					Hour	\$10	Gold / Carbon
					Hour	\$10	Au-Pd
							Tier 2 (100-200 Hours / Machine)
					Hour	\$132	Personal Services-Director
					Hour	\$94	Personal Services-Research Scientist
					Hour	\$15	Hitachi S800 SEM Microscope
					Hour	\$17	Leo 1530 SEM Microscope
					Hour	\$10	Leo 1550 SEM Microscope
					Hour	\$16	JEOL 100C TEM Microscope
					Hour	\$22	JEOL 100CX-2 TEM Microscope
					Hour	\$23	JEOL 4000EX TEM Microscope
					Hour	\$40	Atomic Force Microscope
					Hour	\$8	Hitachi HF-2000 TEM Microscope
					Hour	\$5	JEM 6400 SEM Microscope
					Hour	\$5	Au-Pd
							Tier 3 (200-300 Hours / Machine)
					Hour	\$132	Personal Services-Director
					Hour	\$94	Personal Services-Research Scientist
					Hour	\$8	Hitachi S800 SEM Microscope
					Hour	\$8	Leo 1530 SEM Microscope
					Hour	\$5	Leo 1550 SEM Microscope
					Hour	\$8	JEOL 100C TEM Microscope
					Hour	\$11	JEOL 100CX-2 TEM Microscope
					Hour	\$11	JEOL 4000EX TEM Microscope
					Hour	\$20	Atomic Force Microscope
					Hour	\$4	Hitachi HF-2000 TEM Microscope
					Hour	\$3	JEM 6400 SEM Microscope
					Hour	\$3	Au-Pd

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							Tier 4 (300 - 10,000 Hours / Machine)
					Hour	\$132	Personal Services-Director
					Hour	\$94	Personal Services-Research Scientist
					Hour	\$3	Hitachi S800 SEM Microscope
					Hour	\$3	Leo 1530 SEM Microscope
					Hour	\$2	Leo 1550 SEM Microscope
					Hour	\$3	JEOL 100C TEM Microscope
					Hour	\$4	JEOL 100CX-2 TEM Microscope
					Hour	\$5	JEOL 4000EX TEM Microscope
					Hour	\$8	Atomic Force Microscope
					Hour	\$2	Hitachi HF-2000 TEM Microscope
					Hour	\$1	JEM 6400 SEM Microscope
					Hour	\$1	Au-Pd
2.	Glass Shop	Chemistry	7/1/17	10/31/18	Hour	\$50	Personal Services & Equipment Services, Internal (GA Tech)
					Hour	\$70	Personal Services & Equipment Services, External - Academic
					Hour	\$107	Personal Services & Equipment Services, External Industry
					Cost	Cost	Supplies
3.	NEETRAC Consulting Services	ECE	6/17/14	9/10/18	Hour	\$123	Managers/Consultants
					Hour	\$94	Research Engineers
					Hour	\$69	Research Coordinators
					Hour	\$44	Research Technicians
					Hour	\$28	Graduate Research Assistants
					Hour	\$20	Undergraduate Research Assistants
4.	NEETRAC Platform Services	ECE	7/1/18	9/10/18	Day	\$149	Platform Service Processing
					Day	\$633	HVL - Lab Area
					Day	\$171	MVL
					Day	\$93	MG
					Day	\$128	Materials Lab - FQA
					Day	\$122	Building 3 - West High Bay
					Day	\$136	Building 3 - East High Bay
					Day	\$491	Outdoor

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6.	NMR Center	Chemistry	8/1/18	10/1/18	Hour	\$40	<u>Educational Institutions</u>
						\$13	Personal Services, Other
						\$7	Tier A (4)
						\$16	Premium Rate (8AM-6PM) (3)
						\$8	Non-premium time
						\$30	Tier B (5)
						\$20	Premium Rate (8AM-6PM) (3)
						\$126	Non-premium time
						\$69	<u>External</u>
						\$69	Personal Services, Other
							Machine Service, per hour:
							Premium Rate (8AM-6PM) (3)
							Non-premium time
						7.	Materials Characterization Facility
\$40	Operator/ Consultation						
\$35	Equipment Group 1						
\$35	Hitachi HT7700 TEM						
\$35	Hitachi SU8230						
\$35	Thermo K-Alpha XPS						
\$45	Zeiss Ultra60 FE-SEM						
\$45	Equipment Group 2						
\$45	FEI Nova Nanolab 200 FIB/SEM						
\$45	FEI Quanta 200 3D FIB/SEM						
\$45	IONTOF Time-of-Flight SIMS						
\$45	Kratos XPS						
\$20	Equipment Group 3						
\$20	Hysitron TriboIndenter						
\$20	Raman Spectrometer						
\$20	Veeco AFM						
\$20	Veeco AFM II Dimension 3100						
\$20	Hummer 6 Gold/Palladium Sputter						

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					Basis	Amount	
							Equipment Group 4
					Hour	\$20	Panalytical XRD
					Hour	\$20	Venus25 Benchtop Plasma System
					Hour	\$20	ZONESEM Desktop Sample Cleaner
					Hour	\$20	Shel Lab Vacuum Oven
					Hour	\$20	VWR Vacuum Oven
					Hour	\$20	Cressington Carbon Coater
							<u>Industrial</u>
							Equipment Group 1
					Hour	\$100	Hitachi HT7700 TEM
					Hour	\$100	Hitachi SU8230
					Hour	\$70	Thermo K-Alpha XPS
					Hour	\$100	Zeiss Ultra60 FE-SEM
							Equipment Group 2
					Hour	\$135	FEI Nova Nanolab 200 FIB/SEM
					Hour	\$135	FEI Quanta 200 3D FIB/SEM
					Hour	\$150	IONTOF Time-of-Flight SIMS
					Hour	\$70	Kratos XPS
							Equipment Group 3
					Hour	\$50	Hysitron Tribolndenter
					Hour	\$40	Raman Spectrometer
					Hour	\$40	Veeco AFM
					Hour	\$40	Veeco AFM II Dimension 3100
					Hour	\$20	Hummer 6 Gold/Palladium Sputter
							Equipment Group 4
					Hour	\$50	Panalytical XRD
					Hour	\$20	Venus25 Benchtop Plasma System
					Hour	\$20	ZONESEM Desktop Sample Cleaner
					Hour	\$20	Shel Lab Vacuum Oven
					Hour	\$20	VWR Vacuum Oven
					Hour	\$20	Cressington Carbon Coater

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8.	IEN Micro & Nano Fabrication Center (formerly CMOS)	IEN	1/7/15	9/19/18	Hour	\$100	<u>Academic & Industrial Rates</u> Operator / Consultation
9.	Cleanroom Access	IEN	9/15/14	9/19/18	Month	\$200	<u>EDUCATIONAL INSTITUTION RATES</u> Facility Entry Fee, (Inorganic Cleanroom)
					Month	\$0	Facility Entry Fee, (Organic Cleanroom)
					Hour	\$20	Cleanroom Supply Use Charge
					Month	\$550	<u>INDUSTRIAL RATES</u> Facility Entry Fee, (Inorganic Cleanroom)
					Month	\$0	Facility Entry Fee, (Organic Cleanroom)
					Hour	\$20	Cleanroom Supply Use Charge
					Month	\$3,000	<u>Special Projects Usage</u> Defined Limited Access, per month
10.	Printing and Copying Center	OIT	6/1/16	9/11/18	Hour	\$83	Desktop Services
					Hour	\$18	PrePress Services
					Hour	\$49	Ryobi Services
					Hour	\$48	Heidelberg Windmill Services
					Copy	\$0.024	Quick Copy Services, plus paper
					Copy	\$0.19	Color Copier, plus paper
					Hour	\$30	Bindery Hand Labor Services
					Hour	\$47	Cutter Services
					Hour	\$55	Bourg Services
					Hour	\$65	Folder Services
					Cost plus	0%	Postage Services
					Hour	\$62	Inkjet Mailer
					Hour	\$54	Envelope Inserter
					Hour	\$60	Small Bind Services
					Copy	\$0.04	Student Printing
					Copy	\$0.19	Student Color Printing
					Sq. Ft.	\$3.87	Wide Format Printing
					Cost plus	16%	Supplies & Third Party
15.	Mass Spectrometry Lab	Chemistry	5/9/16	10/30/18	Hour	\$12	<u>INTERNAL (GA Tech)</u> Personal Services
					Hour	\$12	Instrument Services
					Hour	\$12	<u>OTHER EDUCATIONAL INSTITUTIONS RATE</u> Personal Services
					Hour	\$12	Instrument Services
					Hour	\$117	<u>INDUSTRIAL RATE</u> Personal Services
					Hour	\$41	Instrument Services

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17.	Physiological Research Lab (Vivarium)	IBB	8/6/10	10/16/18	Hour	\$30	Assistance & Special Labor
					Hour	\$10	Room Rental (max 5hrs/day)
					per Item	\$2	Laundry Service
					per cage	\$20	Cage Splitting
					per use	\$45	Faxitron Use
					per day	\$20	Anesthesia Machine Use
					per cycle	\$25	Gas Plasma Sterilization
					Hour	\$30	Animal Procurement (minimum 1 hr/per order)
							ANIMAL HUSBANDRY:
							<u>Mice & Rats</u>
					Cage per Day	\$0.60	Mice-Conventional
					Cage per Day	\$0.90	Mice-Sterile Caging
					Cage per Day	\$0.90	Rats-Conventional
					Cage per Day	\$1.20	Rats-Sterile Caging
					Cage per Day	\$1.20	Rodent-Special Caging
							<u>Other Species</u>
					Animal Day	\$0.80	Lizard/Geckos
					Animal Day	\$2.79	Rabbits
					Animal Day	\$2.10	Guinea Pigs
					Animal Day	\$4.59	Cats
					Cost plus	25%	<u>Supplies</u>

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					Basis	Amount	
18.	Histology Lab	IBB	6/26/14	9/21/18	Hour	\$16	<u>GT Internal</u> Personal Services
					Sample	\$3.00	Processing: Paraffin (Routine)
					Sample	\$5.00	Paraffin (Special)
					Sample	\$5.00	Resin (Epoxy)
					Sample	\$10.00	Resin (GMA)
					Sample	\$12.00	Resin (MMA)
							Embedding:
					Sample	\$5.00	Frozen
					Sample	\$1.00	Paraffin (Routine)
					Sample	\$8.00	Paraffin (Special)
					Sample	\$6.00	Resin (Epoxy)
					Sample	\$6.00	Resin (GMA)
					Sample	\$6.00	Resin (MMA)
							Sectioning:
					Slide	\$2.00	Frozen
					Slide	\$0.50	Paraffin
					Slide	\$2.00	Microtome
					Cut	\$5.00	Isomet
					Slide	\$10.00	Exakt Grinding
							Staining:
					Slide	\$2.00	H&E
					Slide	\$5.00	Special
					Slide	\$8.00	IHC
							Other
					Sample	\$5.00	Decalcification
					Slide	\$5.00	Antigen Retrieval
					Slide	\$1.00	Coverslipping
						COST	Supplies - Pass Through
							<u>Other Academic & Industry Partner</u>
					Hour	\$24.00	Personal Services
							Processing:
					Sample	\$6.00	Paraffin (Routine)
					Sample	\$6.00	Paraffin (Special)
					Sample	\$10.00	Resin (Epoxy)
					Sample	\$15.00	Resin (GMA)
					Sample	\$20.00	Resin (MMA)
							Embedding:
					Sample	\$6.00	Frozen
					Sample	\$3.00	Paraffin (Routine)
					Sample	\$10.00	Paraffin (Special)
					Sample	\$24.00	Resin (Epoxy)
					Sample	\$24.00	Resin (GMA)
					Sample	\$24.00	Resin (MMA)

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					Basis	Amount	
							Sectioning:
					Slide	\$4.00	Frozen
					Slide	\$0.75	Paraffin
					Slide	\$5.00	Microtome
					Cut	\$10.00	Isomet
					Slide	\$12.00	Exakt Grinding
							Staining:
					Slide	\$5.00	H&E
					Slide	\$20.00	Special
					Slide	\$30.00	IHC
							Other
					Sample	\$10.00	Decalcification
					Slide	\$10.00	Antigen Retrieval
					Slide	\$1.00	Coverslipping
						COST	Supplies - Pass Through
							<u>Industry</u>
					Hour	\$32.00	Personal Services
							Processing:
					Sample	\$6.00	Paraffin (Routine)
					Sample	\$10.00	Paraffin (Special)
					Sample	\$17.00	Resin (Epoxy)
					Sample	\$35.00	Resin (GMA)
					Sample	\$50.00	Resin (MMA)
							Embedding:
					Sample	\$11.00	Frozen
					Sample	\$7.00	Paraffin (Routine)
					Sample	\$23.00	Paraffin (Special)
					Sample	\$121.00	Resin (Epoxy)
					Sample	\$144	Resin (GMA)
					Sample	\$138.00	Resin (MMA)
							Sectioning:
					Slide	\$8.00	Frozen
					Slide	\$1.00	Paraffin
					Slide	\$13.00	Microtome
					Cut	\$13.00	Isomet
					Slide	\$13.00	Exakt Grinding
							Staining:
					Slide	\$32.00	H&E
					Slide	\$42.00	Special
					Slide	\$47.00	IHC
							Other
					Sample	\$19.00	Decalcification
					Slide	\$14.00	Antigen Retrieval
					Slide	\$1.00	Coverslipping
						COST	Supplies - Pass Through

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					Basis	Amount	
20.	Georgia Industrial Fellowships for Teachers	CEISMC	4/11/16	9/17/17	Participant	\$1,500	<u>On Campus Rate</u> Administrative Charge
					Participant	\$2,250	<u>Off Campus Rate</u> Administrative Charge
21.	Testing Services	IPST	5/22/13	8/27/18	Hour	\$97	<u>INTERNAL, ACADEMIC, INDUSTRY MEMBERS</u> Senior Scientist
					Hour	\$65	Analyst
					Hour	\$36	Instrument Services
					Hour	\$149	<u>INDUSTRIAL - NON-MEMBER</u> Senior Scientist
					Hour	\$99	Analyst
					Hour	\$150	Consulting Services
22.	Technical Services Organization	CoC	11/6/15	9/18/18	EFT per year	\$6,123	Computing & Networking Services
23.	Interactive Media Technology Center	IMTC	3/16/17	9/4/18	Hour		<u>Internal Departments:</u> Consulting
					Hour	\$84	<u>Other Educational Institutions</u> Consulting
					Hour	\$84	<u>Corporate:</u> Consulting
24.	Professional Education	GTPE	6/23/16	9/11/18	Federal	Other	<u>GTPE Administrative Charge - Sponsored PE Contracts</u>
					26.5%	27.5%	Contract Value < \$5K
					22.0%	23.0%	Contract Value \$5K - < \$10K
					12.5%	13.5%	Contract Value \$10K - < \$30K
					10.5%	11.5%	Contract Value \$30K - < \$50K
					8.5%	9.5%	Contract Value \$50K - < \$100K
					9.0%	10.0%	Contract Value > \$100K

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25.	Electron Beam Laboratory	IEN	3/21/14	9/19/18			<u>US Academic Institutions</u>
					Hour	\$100	Staff Time
					Hour	\$60	EBL Machine Time
							<u>Foreign Academic Institutions</u>
					Hour	\$100	Staff Time
					Hour	\$90	EBL Machine Time
							<u>Industrial</u>
					Hour	\$100	Staff Time
		Hour	\$90	EBL Machine Time			
26.	3-D Printer	COD	7/14/17	9/17/18	Cubic Inch	\$4.75	<u>GT Student Enrolled in COD Studio</u>
					ML	\$0.37	Dimension FDM Printing
					ML	\$0.50	Form 2 - High Res Clear and White
					Cubic Inch	\$5.50	Form 2 - Rubber
							Zcorp - Powder
							<u>Internal Non COD & Federal Entities</u>
					Cubic Inch	\$9.50	Dimension FDM Printing
					ML	\$0.74	Form 2 - High Res Clear and White
					ML	\$1.00	Form 2 - Rubber
					Cubic Inch	\$6.72	Zcorp - Powder
27.	Telecom	OIT	7/1/18	9/10/18	FTE	\$475.00	<u>Internal</u> Telecom
28.	Neuro Lab	BME	11/28/15	9/10/18	Group per Semester	\$1,264.29	<u>Internal</u> Lab Coordination and Communications Fee
					Group per Semester	\$112.41	Lab Supplies and Services
					Group per Semester	\$52.49	Lab Gas Charges
							<u>External</u>
					Hour	\$9.03	Instrument Services
29.	Microanalysis Center	MSE	3/28/14	9/16/18			<u>Internal</u>
					Hour	\$30	Personal Services
					Hour	\$30	Instrument Services
							<u>Industrial</u>
					Hour	\$36	Personal Services
		Hour	\$45	Instrument Services			

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					Basis	Amount	Service		
30.	NMRI-MR Imaging Facility	BME	7/1/18	9/18/18			<u>Internal</u>		
					Hour	\$70	Personal Services - (1 hour minimum)		
					Hour	\$110	Instrument Services - (1 hour minimum)		
							<u>External (Industry)</u>		
					Hour	\$72	Personal Services - (1 hour minimum)		
					Hour	\$241	Instrument Services - (1 hour minimum)		
32.	Center for Advanced Brain Imaging	CoS	3/10/16	9/7/18			<u>Internal</u>		
					Hour	\$42	Weekend / Evening		
					Hour	\$90	Consulting Services		
					Hour	\$82	Facility Use		
					Hour	\$425	Instrument Services		
							<u>External/Industry</u>		
							Hour	\$42	Weekend / Evening
							Hour	\$90	Consulting Services
		Hour	\$82	Facility Use					
			Hour	\$525	Instrument Services				
34.	Optical Microscopy	IBB	11/7/17	9/21/18			<u>Georgia Tech</u>		
					Hour	\$22	Instrument Services		
					Hour	\$24	Personal Services		
							<u>Affiliates and Industry Partners</u>		
					Hour	\$30	Instrument Services		
					Hour	\$32	Personal Services		
		<u>Industry</u>							
		Hour	\$105	Instrument Services					
		Hour	\$69	Personal Services					
35.	Vacuum Test Facility	AE	2/24/16	9/17/18	Day	\$621	Main Chamber Set Up		
					Day	\$1,605	Main Chamber Usage		
					Day	\$621	Small Chamber Set Up		
					Day	\$1,605	Small Chamber Usage		

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38.	Genome Analysis	IBB	7/1/17	9/21/18			<u>GT Users</u>
					Hour	\$52	Personal Services, per hours
					unit	\$1,210	96.96 Gene Expression
					unit	\$836	96.96 Genotyping
					unit	\$57	96.96 Pre-Amp
					unit	\$603	48.48 Gene Expression
					unit	\$542	48.48 Genotyping
					unit	\$57	48.48 Pre-Amp
					unit	\$606	48.48 Taqman Gene Expression
					unit	\$762	12 X 12 Chip
					unit	\$54	Nano Bioanalyzer
					unit	\$5	Nano Bioanalyzer w/o Reagents
					unit	\$73	Pico Bioanalyzer
					unit	\$5	Pico Bioanalyzer w/o Reagents
					unit	\$2	Nano Drop
					per chip (8 samples)	\$40	ddPCR
					per chip (8 samples)	\$16	ddPCR w/o reagents
					unit	\$0	Nucleofector
					Per Cartidрге	\$200	BioRad ddSEQ
					unit	\$5	Step One PPlus 96 well RT PCR S
					Per Sample	\$50	Library
					Sample	\$2,200	Chromium™ Single Cell 3' GEM, Library & Isolation and Prep Single Sample
					Sample	\$1,750	Chromium™ Single Cell 3' GEM, Library & Isolation and Prep 4 Sample Sets
					Sample	\$2,050	Chromium™ Single Cell 5' Library & Library & Isolation and Prep, Single Sample
					Sample	\$1,600	Chromium™ Single Cell 5' Library & Library & Isolation and Prep, 4 Sample Sets
					Sample	\$2,050	Single Cell ATAC Seq Assay
					Sample	\$1,600	Single Cell ATAC Seq Assay, 4 sample Set

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							<u>Affiliates and Industry Partners</u>
					Hour	\$52	Personal Services, per hours
					unit	\$1,469	96.96 Gene Expression
					unit	\$1,015	96.96 Genotyping
					unit	\$70	96.96 Pre-Amp
					unit	\$713	48.48 Gene Expression
					unit	\$547	48.48 Genotyping
					unit	\$70	48.48 Pre-Amp
					unit	\$774	48.48 Taqman Gene Expression
					unit	\$788	12 X 12 Chip
					unit	\$58	Nano Bioanalyzer
					unit	\$80	Pico Bioanalyzer
					unit	\$2	Nano Drop
					per chip (8 samples)	\$40	ddPCR
					per chip (8 samples)	\$16	ddPCR w/o reagents
					unit	\$7	Nucleofector
					Per Cartidge	\$250	BioRad ddSEQ
					unit	\$5	Step One PLus 96 well RT PCR S
					Per Sample	\$100	Library
					Sample	\$2,200	Chromium™ Single Cell 3' GEM, Library & Isolation and Prep Single Sample
					Sample	\$1,750	Chromium™ Single Cell 3' GEM, Library & Isolation and Prep 4 Sample Sets
					Sample	\$2,050	Chromium™ Single Cell 5' Library & Library & Isolation and Prep, Single Sample
					Sample	\$1,600	Chromium™ Single Cell 5' Library & Library & Isolation and Prep, 4 Sample Sets
					Sample	\$2,050	Single Cell ATAC Seq Assay
					Sample	\$1,600	Single Cell ATAC Seq Assay, 4 sample Set

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							<u>External (Industry)</u>
					Hour	\$52	Personal Services, per hours
					unit	\$1,646	96.96 Gene Expression
					unit	\$904	96.96 Genotyping
					unit	\$82	96.96 Pre-Amp
					unit	\$713	48.48 Gene Expression
					unit	\$547	48.48 Genotyping
					unit	\$82	48.48 Pre-Amp
					unit	\$774	48.48 Taqman Gene Expression
					unit	\$788	12 X 12 Chip
					unit	\$63	Nano Bioanalyzer
					unit	\$82	Pico Bioanalyzer
					unit	\$2	Nano Drop
					per chip (8 samples)	\$48	ddPCR
					per chip (8 samples)	\$28	ddPCR w/o reagents
					unit	\$7	Nucleofector
					Per Cartidge	\$258	BioRad ddSEQ
					unit	\$5	Step One PLus 96 well RT PCR S
					Per Sample	\$412	Library
					Sample	\$2,510	Chromium™ Single Cell 3' GEM, Library & Isolation and Prep Single Sample
					Sample	\$2,314	Chromium™ Single Cell 3' GEM, Library & Isolation and Prep 4 Sample Sets
					Sample	\$2,281	Chromium™ Single Cell 5' Library & Library & Isolation and Prep, Single Sample
					Sample	\$2,196	Chromium™ Single Cell 5' Library & Library & Isolation and Prep, 4 Sample Sets
					Sample	\$2,250	Single Cell ATAC Seq Assay
					Sample	\$2,122	Single Cell ATAC Seq Assay, 4 sample Set

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No.	Name of Rate Study	Department	Rate Study Date	Annual Validation Date	Rates		Service
					Basis	Amount	
40.	Digital Fabrication Lab	COD	6/5/13	9/17/18			<u>DFL Lab</u>
					Hour	\$0	Personal Services
					Hour	\$0	Machine Services
					Hour	\$45	DFL Waterjet
							<u>Internal (Georgia Tech)</u>
					Hour	\$25	Personal Services
					Hour	\$30	Machine Services
					Hour	\$45	DFL Waterjet
							<u>Industry</u>
					Hour	\$25	Personal Services
Hour	\$100	Machine Services					
Hour	\$100	DFL Waterjet					
41.	Cryo-EM Center	Biology	7/1/18	10/23/17			<u>Internal/Federal</u>
					Hour	\$50	TEM
					Hour	\$70	Cryo-EM
							<u>External Academic</u>
					Hour	\$50	TEM
					Hour	\$70	Cryo-EM
							<u>Industrial</u>
					Hour	\$344	TEM
Hour	\$344	Cryo-EM					
43.	Invention Studio Center	ME	7/1/18	10/31/17			<u>Internal</u>
					Cubic Inch	\$30	Objet Eden
					Cubic Inch	\$20	F170
					Cubic Inch	\$25	EOS Formiga
							<u>External/Industry</u>
					Cubic Inch	\$60	Objet Eden
Cubic Inch	\$48	F170					
Cubic Inch	\$33	EOS Formiga					
45.	Alternative Media Access Center	CoA	7/17/13	9/17/18	Hour	\$450	Consultation
47.	High Performace Computing (HPC)	OIT	12/11/15	10/10/18			<u>External</u>
					Server	\$1,699	Infrastructure and Support
					Per TB	\$169	DDN Project Storage
					CPU Hour	\$0.0715	8 Core Node
					CPU Hour	\$0.0477	12 Core Node
					CPU Hour	\$0.0358	16 Core Node
					CPU Hour	\$0.0236	24 Core Node
					CPU Hour	\$0.0119	48 Core Node
CPU Hour	\$0.0089	64 Core Node					
48.	Mesoscale Materials Characterization	ME	4/2/14	10/31/17			<u>Educational Institutions</u>
					Hour	\$35	SEM
					Hour	\$45	SEM + EBSD
							<u>Industrial</u>
					Hour	\$42	SEM
Hour	\$62	SEM + EBSD					

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No.	Name of Rate Study	Department	Rate Study Date	Annual Validation Date	Rates		Service
					Basis	Amount	
49.	Carbon Fiber Research Center	MSE	3/18/14	9/8/18	Hour	\$72	Personal Services
					Day	\$626	Single Filament Spinning Equipment
					Day	\$2,515	Multifilament Spinning Equipment
					Week	\$11,256	Multifilament Stabilization & Carbonization
					Hour	\$68	Solution Preparation Equipment
					Day	\$794	Extruder
					Hour	\$55	Characterization Instruments
					Hour	\$94	Xray Diffraction System
					Hour	\$626	Batch Furnace Equipment
50.	Machine Shop	AE	5/12/14	9/17/18			<u>Educational Institutions</u>
					Hour	\$55	Personal Services
					Hour	\$0	Machine Services
					Hour	\$55	Combined Rate
							<u>Industrial</u>
					Hour	\$65	Personal Services
					Hour	\$3	Machine Services
Hour	\$68	Combined Rate					
51.	GTMI Prototype Lab	GTMI	6/2/14	9/17/18			<u>GT & IPP Members</u>
					Hour	\$35	Personal Services
					Hour	\$60	GF Agie Charmilles
					Hour	\$60	Bridgeport GX CNC Milling
					Hour	\$60	Okuma Genos Lathe
					Hour	\$125	Optomec Aerosol 3D
					Cubic In.	\$11	Statasys Connex 3D
					Cubic In.	\$16	Statasys MOJO
							<u>Industrial</u>
					Hour	\$35	Personal Services
					Hour	\$130	GF Agie Charmilles
					Hour	\$120	Bridgeport GX CNC Milling
					Hour	\$120	Okuma Genos Lathe
					Hour	\$156	Optomec Aerosol 3D
					Cubic In.	\$11	Statasys Connex 3D
Cubic In.	\$16	Statasys MOJO					

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					Basis	Amount	
52.	Cellular Analysis Core	IBB	12/15/16	9/21/18			
					Hour	\$18	<u>GT Investigators</u>
					Hour	\$10	Personal Services
					Hour	\$54	BD FACS ARIA IIIu Analyser
					Hour	\$10	BD FACS ARIA IIIu Sorter
					Hour	\$10	BD LSR II or BD Fortessa
					Hour	\$10	BD Accuri Analyzer
					Hour	\$10	AMBR Microbioreactor
					Hour	\$10	Li-COR
					Hour	\$10	Multisizer
					Hour	\$10	Amnis Flowsight
							<u>Other Academic Investigators & Industry Partners</u>
					Hour	\$36	Personal Services
					Hour	\$18	BD FACS ARIA IIIu Analyser
					Hour	\$75	BD FACS ARIA IIIu Sorter
					Hour	\$18	BD LSR II or BD Fortessa
					Hour	\$18	BD Accuri Analyzer
					Hour	\$20	AMBR Microbioreactor
					Hour	\$15	Li-COR
					Hour	\$18	Multisizer
					Hour	\$14	Amnis Flowsight
							<u>Industry</u>
					Hour	\$46	Personal Services
					Hour	\$130	BD FACS ARIA IIIu Analyser
					Hour	\$130	BD FACS ARIA IIIu Sorter
					Hour	\$31	BD LSR II or BD Fortessa
					Hour	\$20	BD Accuri Analyzer
					Hour	\$25	AMBR Microbioreactor
					Hour	\$21	Li-COR
					Hour	\$27	Multisizer
					Hour	\$16	Amnis Flowsight

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					Basis	Amount	
54.	XRD Center	IMaT	2/23/15	9/18/18			<u>Educational Institutions</u> Tier Structure where total rates decline per group for each machine as usage increases
					Hour	\$34.00	Tier 1 (1st 0-150 Hours / Machine) Personal Services
					Hour	\$17.00	X-Ray Services
					Hour	\$17.00	Tier 2 (1st 151-300 Hours / Machine) Personal Services
					Hour	\$8.50	X-Ray Services
					Hour	\$8.50	Tier 3 (1st 301-450 Hours / Machine) Personal Services
					Hour	\$4.25	X-Ray Services
					Hour	\$3.40	Tier 4 (1st 451+ Hours / Machine) Personal Services
					Hour	\$1.70	X-Ray Services
					Hour	\$53.00	<u>Industrial</u> Personal Services
					Hour	\$41.00	X-Ray Services
55.	Neuro Design Suite	IBB	5/11/15	9/21/18	Hour	\$85.00	<u>GA Tech</u> Machine Service
					Hour	\$100.00	<u>Other Academic</u> Machine Service
					Hour	\$125.00	<u>Industrial</u> Machine Service
57.	Precision Services Lab	ME	9/28/15	10/13/17	Hour	\$193.00	<u>Educational Institutions</u> CT Scanner
					Hour	\$171.00	Equipment Use
					Hour	\$193.00	<u>Industrial</u> CT Scanner
					Hour	\$171.00	Equipment Use

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					Basis	Amount	Service
58.	Molecular Evolution	IBB	7/1/17	9/21/18			Internal
				IBB/EBB	Hour	\$85	Consultation Charge
				IBB	Run	\$2,813	HiSeq Rapid Run (100) PE50
				IBB	Run	\$324	HiSeq Rapid Run (100) PE50 w/o reagents
				IBB	Run	\$3,818	HiSeq Rapid Run (200 cycles) PE100
				IBB	Run	\$439	HiSeq Rapid Run (200 cycles) PE100 w/o reagents
				IBB	Run	\$5,035	HiSeq Rapid Run (300 cycles) PE150
				IBB	Run	\$579	HiSeq Rapid Run (300 cycles) PE150 w/o reagents
				IBB	Run	\$6,509	HiSeq Rapid Run (500 cycles) PE250
				IBB	Run	\$749	HiSeq Rapid Run (500 cycles) PE250 w/o reagents
				IBB	Run	\$1,647	HiSeq Rapid Run (50 cycles) SE50
				IBB	Run	\$189	HiSeq Rapid Run (50 cycles) SE50 w/o reagents
				IBB	Run	\$2,255	HiSeq Rapid Run (100 cycles) SE100
				IBB	Run	\$259	HiSeq Rapid Run (100 cycles) SE100 w/o reagents
				IBB	Run	\$2,864	HiSeq Rapid Run (150) SE150
				IBB	Run	\$329	HiSeq Rapid Run (150) SE150 w/o reagents
				IBB	Lane	\$896	HiSeq High Output Run (50) SE50
				IBB	Lane	\$825	HiSeq High Output Run (50) SE50 w/o reagents
				IBB	Lane	\$1,227	HiSeq High Output Run (100) SE100
				IBB	Lane	\$141	HiSeq High Output Run (100) SE100 w/o reagents
				IBB	Lane	\$1,557	HiSeq High output (125) SE125
				IBB	Lane	\$232	HiSeq High output (125) SE125 w/o reagents
				IBB	Lane	\$1,527	HiSeq High Output Run (100) PE50
				IBB	Lane	\$176	HiSeq High Output Run (100) PE50 w/o reagents
				IBB	Lane	\$2,188	HiSeq High Output Run (200) PE100
				IBB	Lane	\$252	HiSeq High Output Run (200) PE100 w/o reagents
				IBB	Lane	\$2,275	HiSeq High Output Run (250) PE125
				IBB	Lane	\$262	HiSeq High Output Run (250) PE125 w/o reagents
				IBB	Sample	\$5	Qubit
				IBB	Sample	\$65	Library preparation (Nextera XT)
				IBB	Sample	\$30	W/o reagents
				IBB	Sample	\$103	Library preparation (Nextera DNA)
				IBB	Sample	\$30	W/o reagents
				IBB	Sample	\$100	Library preparation (TruSeq RNA)
				IBB	Sample	\$42	W/o reagents
				IBB	Sample	\$65	Library preparation (TruSeq DNA - with sheared DNA)
				IBB	Sample	\$30	W/o reagents
				IBB	Sample	\$148	Library preparation (Nextera Exome)
				IBB	Sample	\$46	W/o reagents
				IBB	Sample	\$55	Library preparation (NEB DNA Ultra II)
				IBB	Sample	\$30	W/o reagents
				IBB	Sample	\$75	Library preparation (NEB RNA Ultra II)
				IBB	Sample	\$36	W/o reagents
				IBB	Run	\$490	cBOT separation
				IBB	Run	\$40	W/o reagents
				IBB	Sample	\$5	Sanger Sequencing
				EBB	Run	\$1,448	NextSeq Mid Output Kit SE150 or PE75
				EBB	Run	\$430	NextSeq Mid Output Kit SE150 or PE75 service only
				EBB	Run	\$2,095	NextSeq Mid Output Kit PE150
				EBB	Run	\$465	NextSeq Mid Output Kit PE150 service only
				EBB	Run	\$1,813	NextSeq High Output Kit SE75 or PE35
				EBB	Run	\$450	NextSeq High Output Kit SE75 or PE35 service only
				EBB	Run	\$3,138	NextSeq High Output Kit SE150 or PE75
				EBB	Run	\$520	NextSeq High Output Kit SE150 or PE75 service only
				EBB	Run	\$4,796	NextSeq High Output Kit PE150
				EBB	Run	\$607	NextSeq High Output Kit PE150 service only

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					Basis	Amount	Service
				EBB	Run	\$960	MiniSeq High Output Kit SE75 or PE35
				EBB	Run	\$170	MiniSeq High Output Kit SE75 or PE35 service only
				EBB	Run	\$1,122	MiniSeq High Output Kit SE150 or PE75
				EBB	Run	\$198	MiniSeq High Output Kit SE150 or PE75 service only
				EBB	Run	\$1,800	MiniSeq High Output Kit PE150
				EBB	Run	\$318	MiniSeq High Output Kit PE150 service only
				EBB	Run	\$660	MiniSeq Mid Output Kit PE150
				EBB	Run	\$117	MiniSeq Mid Output Kit PE150 service only
				EBB	Chip	\$33	Bioanalyzer 2100 (DNA 1000)
				EBB	Chip	\$58	Bioanalyzer 2100 (DNA HS)
				EBB	Chip	\$27	Bioanalyzer 2100 (RNA)
				EBB	Chip	\$42	Bioanalyzer 2100 w/o seq at core (DNA 1000)
				EBB	Chip	\$68	Bioanalyzer 2100 w/o seq at core (DNA HS)
				EBB	Chip	\$50	Bioanalyzer 2100 w/o seq at core (protein)
				EBB	Hour	\$10	"Andrew" pipetting robot
				EBB	Use	\$200	Set up fee for Andrew pipetting Robot
				EBB	Sample	\$3	DNA Extraction /sample
				EBB	Sample	\$3	RNA Extraction /sample
				EBB	Phage displays	\$10,000	DSFV Phage Display (1)
				EBB	Phage displays	\$20,000	DSFV Phage Display (10)
				EBB	Clone	\$100	Custom Cloning (basic)
				EBB	Clone	\$1,000	Custom Cloning (advanced)
				EBB	Reaction	\$30	Error Prone PCR
				EBB	Library	\$500	Error Prone PCR with Library Construction
				EBB	Library	\$715	Custom Region Saturated mutagenesis library
				EBB	Vial	\$30	E. coli and Yeast competent cells
				EBB	Units	\$15	Taq DNA polymerase, 1000 units
				EBB	Units	\$25	Phusion DNA polymerase, 1000 units
				EBB	Loads	\$50	DNA ladder, 100
				EBB	Set	\$500	GT XT custom adapter primers SetA
				EBB	Set	\$500	GT XT custom adapter primers SetB
				EBB	Set	\$500	GT XT custom adapter primers SetC
				EBB	Set	\$500	GT XT custom adapter primers SetD
				EBB	1/vial/yr	\$1	frozen stock sample storage -80
				EBB	Prep plus shipping	\$50	Plasmid Prep and shipment
				EBB	Sleeve	\$20	Agar plates (per 20 plates)
				EBB	Colonies	\$20	Colony Picking, 1000 colonies
				EBB	Reacton	\$5	Sanger sequencing
				EBB	Vial	\$25	Gel purification of the NGS libraries
				EBB	5/1M, 1ml	\$5	IPTG solution, 1M solution; 1mL
				EBB	L	\$20	Medium for bacterial and yeast groth, 1L
				EBB	Reaction	\$3	Gibbson assembly enzyme mixture 1 reaction
				EBB	Sample	\$5	Qubit DNA measurment /sample
				EBB	Sample	\$50	NGS DNA Library preparation NEB
				EBB	Sample	\$55	NGS plasmid sequencing
				EBB	Month/User	\$399	Cell culture room usage
				EBB	Tube	\$1	Antibiotics stock solutions
				EBB	Hour	\$2	Remote desktop Genious DNA analysis software

No.	Name of Rate Study	Department	Rate Study Date	Annual Validation Date	Rates		Service
					Basis	Amount	
							External Academic/Industry Partners
				IBB/EBB	Hour	\$85	Consultation Charge
				IBB	Run	\$2,813	HiSeq Rapid Run (100) PE50
				IBB	Run	\$324	HiSeq Rapid Run (100) PE50 w/o reagents
				IBB	Run	\$3,818	HiSeq Rapid Run (200 cycles) PE100
				IBB	Run	\$439	HiSeq Rapid Run (200 cycles) PE100 w/o reagents
				IBB	Run	\$5,035	HiSeq Rapid Run (300 cycles) PE150
				IBB	Run	\$579	HiSeq Rapid Run (300 cycles) PE150 w/o reagents
				IBB	Run	\$6,509	HiSeq Rapid Run (500 cycles) PE250
				IBB	Run	\$749	HiSeq Rapid Run (500 cycles) PE250 w/o reagents
				IBB	Run	\$1,647	HiSeq Rapid Run (50 cycles) SE50
				IBB	Run	\$189	HiSeq Rapid Run (50 cycles) SE50 w/o reagents
				IBB	Run	\$2,255	HiSeq Rapid Run (100 cycles) SE100
				IBB	Run	\$259	HiSeq Rapid Run (100 cycles) SE100 w/o reagents
				IBB	Run	\$2,864	HiSeq Rapid Run (150) SE150
				IBB	Run	\$329	HiSeq Rapid Run (150) SE150 w/o reagents
				IBB	Lane	\$896	HiSeq High Output Run (50) SE50
				IBB	Lane	\$825	HiSeq High Output Run (50) SE50 w/o reagents
				IBB	Lane	\$1,227	HiSeq High Output Run (100) SE100
				IBB	Lane	\$141	HiSeq High Output Run (100) SE100 w/o reagents
				IBB	Lane	\$1,557	HiSeq High output (125) SE125
				IBB	Lane	\$232	HiSeq High output (125) SE125 w/o reagents
				IBB	Lane	\$1,527	HiSeq High Output Run (100) PE50
				IBB	Lane	\$176	HiSeq High Output Run (100) PE50 w/o reagents
				IBB	Lane	\$2,188	HiSeq High Output Run (200) PE100
				IBB	Lane	\$252	HiSeq High Output Run (200) PE100 w/o reagents
				IBB	Lane	\$2,275	HiSeq High Output Run (250) PE125
				IBB	Lane	\$262	HiSeq High Output Run (250) PE125 w/o reagents
				IBB	Sample	\$5	Qubit
				IBB	Sample	\$65	Library preparation (Nextera XT)
				IBB	Sample	\$30	W/o reagents
				IBB	Sample	\$103	Library preparation (Nextera DNA)
				IBB	Sample	\$30	W/o reagents
				IBB	Sample	\$100	Library preparation (TruSeq RNA)
				IBB	Sample	\$42	W/o reagents
				IBB	Sample	\$65	Library preparation (TruSeq DNA - with sheared DNA)
				IBB	Sample	\$30	W/o reagents
				IBB	Sample	\$148	Library preparation (Nextera Exome)
				IBB	Sample	\$46	W/o reagents
				IBB	Sample	\$55	Library preparation (NEB DNA Ultra II)
				IBB	Sample	\$30	W/o reagents
				IBB	Sample	\$75	Library preparation (NEB RNA Ultra II)
				IBB	Sample	\$36	W/o reagents
				IBB	Run	\$490	cBOT separation
				IBB	Run	\$40	W/o reagents
				IBB	Sample	\$5	Sanger Sequencing
				EBB	Run	\$1,448	NextSeq Mid Output Kit SE150 or PE75
				EBB	Run	\$430	NextSeq Mid Output Kit SE150 or PE75 service only
				EBB	Run	\$2,095	NextSeq Mid Output Kit PE150
				EBB	Run	\$465	NextSeq Mid Output Kit PE150 service only
				EBB	Run	\$1,813	NextSeq High Output Kit SE75 or PE35
				EBB	Run	\$450	NextSeq High Output Kit SE75 or PE35 service only
				EBB	Run	\$3,138	NextSeq High Output Kit SE150 or PE75
				EBB	Run	\$520	NextSeq High Output Kit SE150 or PE75 service only
				EBB	Run	\$4,796	NextSeq High Output Kit PE150
				EBB	Run	\$607	NextSeq High Output Kit PE150 service only

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					Basis	Amount	Service
				EBB	Run	\$960	MiniSeq High Output Kit SE75 or PE35
				EBB	Run	\$170	MiniSeq High Output Kit SE75 or PE35 service only
				EBB	Run	\$1,122	MiniSeq High Output Kit SE150 or PE75
				EBB	Run	\$198	MiniSeq High Output Kit SE150 or PE75 service only
				EBB	Run	\$1,800	MiniSeq High Output Kit PE150
				EBB	Run	\$318	MiniSeq High Output Kit PE150 service only
				EBB	Run	\$660	MiniSeq Mid Output Kit PE150
				EBB	Run	\$117	MiniSeq Mid Output Kit PE150 service only
				EBB	Chip	\$33	Bioanalyzer 2100 (DNA 1000)
				EBB	Chip	\$58	Bioanalyzer 2100 (DNA HS)
				EBB	Chip	\$42	Bioanalyzer 2100 w/o seq at core (DNA 1000)
				EBB	Chip	\$68	Bioanalyzer 2100 w/o seq at core (DNA HS)
				EBB	Chip	\$38	Bioanalyzer 2100 w/o seq at core (RNA)
				EBB	Chip	\$50	Bioanalyzer 2100 w/o seq at core (protein)
				EBB	Hour	\$10	"Andrew" pipetting robot
				EBB	Use	\$200	Set up fee for Andrew pipetting Robot
				EBB	Sample	\$3	DNA Extraction /sample
				EBB	Sample	\$3	RNA Extraction /sample
				EBB	Reaction	\$30	Error Prone PCR
				EBB	Library	\$500	Error Prone PCR with Library Construction
				EBB	Library	\$715	Custom Region Saturated mutagenesis library
				EBB	Units	\$15	Taq DNA polymerase, 1000 units
				EBB	Loads	\$50	DNA ladder, 100
				EBB	Set	\$500	GT XT custom adapter primers SetA
				EBB	Set	\$500	GT XT custom adapter primers SetB
				EBB	Set	\$500	GT XT custom adapter primers SetC
				EBB	Set	\$500	GT XT custom adapter primers SetD
				EBB	Sleeve	\$20	Agar plates (per 20 plates)
				EBB	Colonies	\$20	Colony Picking, 1000 colonies
				EBB	Reacton	\$5	Sanger sequencing
				EBB	Vial	\$25	Gel purification of the NGS libraries
				EBB	Sample	\$5	Qubit DNA measurement /sample
				EBB	Sample	\$55	NGS DNA Library preparation NEB
				EBB	Sample	\$50	NGS plasmid sequencing
				EBB	Month/User	\$399	Cell culture room usage
				EBB	Tube	\$1	Antibiotics stock solutions

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					Basis	Amount	
							External Industry
				IBB/EBB	Hour	\$86	Consultation Charge
				IBB	Run	\$3,439	HiSeq Rapid Run (100) PE50
				IBB	Run	\$949	HiSeq Rapid Run (100) PE50 w/o reagents
				IBB	Run	\$5,003	HiSeq Rapid Run (200 cycles) PE100
				IBB	Run	\$1,624	HiSeq Rapid Run (200 cycles) PE100 w/o reagents
				IBB	Run	\$6,485	HiSeq Rapid Run (300 cycles) PE150
				IBB	Run	\$2,029	HiSeq Rapid Run (300 cycles) PE150 w/o reagents
				IBB	Run	\$7,915	HiSeq Rapid Run (500 cycles) PE250
				IBB	Run	\$2,154	HiSeq Rapid Run (500 cycles) PE250 w/o reagents
				IBB	Run	\$2,407	HiSeq Rapid Run (50 cycles) SE50
				IBB	Run	\$949	HiSeq Rapid Run (50 cycles) SE50 w/o reagents
				IBB	Run	\$4,958	HiSeq Rapid Run (100 cycles) SE100
				IBB	Run	\$2,962	HiSeq Rapid Run (100 cycles) SE100 w/o reagents
				IBB	Run	\$3,484	HiSeq Rapid Run (150) SE150
				IBB	Run	\$949	HiSeq Rapid Run (150) SE150 w/o reagents
				IBB	Lane	\$7,292	HiSeq High Output Run (50) SE50
				IBB	Lane	\$949	HiSeq High Output Run (50) SE50 w/o reagents
				IBB	Lane	\$9,634	HiSeq High Output Run (100) SE100
				IBB	Lane	\$949	HiSeq High Output Run (100) SE100 w/o reagents
				IBB	Lane	\$15,761	HiSeq High output (125) SE125
				IBB	Lane	\$4,735	HiSeq High output (125) SE125 w/o reagents
				IBB	Lane	\$11,758	HiSeq High Output Run (100) PE50
				IBB	Lane	\$949	HiSeq High Output Run (100) PE50 w/o reagents
				IBB	Lane	\$16,441	HiSeq High Output Run (200) PE100
				IBB	Lane	\$949	HiSeq High Output Run (200) PE100 w/o reagents
				IBB	Lane	\$17,054	HiSeq High Output Run (250) PE125
				IBB	Lane	\$949	HiSeq High Output Run (250) PE125 w/o reagents
				IBB	Sample	\$6	Qubit
				IBB	Sample	\$42	W/o reagents
				IBB	Sample	\$243	Library preparation (Nextera XT)
				IBB	Sample	\$188	W/o reagents
				IBB	Sample	\$179	Library preparation (Nextera DNA)
				IBB	Sample	\$88	W/o reagents
				IBB	Sample	\$121	Library preparation (TruSeq RNA)
				IBB	Sample	\$33	W/o reagents
				IBB	Sample	\$93	Library preparation (TruSeq DNA - with sheared DNA)
				IBB	Sample	\$42	W/o reagents
				IBB	Sample	\$207	Library preparation (Nextera Exome)
				IBB	Sample	\$76	W/o reagents
				IBB	Sample	\$71	Library preparation (NEB DNA Ultra II)
				IBB	Sample	\$43	W/o reagents
				IBB	Sample	\$116	Library preparation (NEB RNA Ultra II)
				IBB	Sample	\$74	W/o reagents
				IBB	Run	\$709	cBOT separation
				IBB	Run	\$251	W/o reagents
				IBB	Sample	\$55	Sanger Sequencing
				EBB	Run	\$1,549	NextSeq Mid Output Kit SE150 or PE75
				EBB	Run	\$430	NextSeq Mid Output Kit SE150 or PE75 service only
				EBB	Run	\$2,191	NextSeq Mid Output Kit PE150
				EBB	Run	\$465	NextSeq Mid Output Kit PE150 service only
				EBB	Run	\$2,209	NextSeq High Output Kit SE75 or PE35
				EBB	Run	\$450	NextSeq High Output Kit SE75 or PE35 service only

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No.	Name of Rate Study	Department	Rate Study Date	Annual Validation Date	Rates		
					Basis	Amount	Service
				EBB	Run	\$3,345	NextSeq High Output Kit SE150 or PE75
				EBB	Run	\$520	NextSeq High Output Kit SE150 or PE75 service only
				EBB	Run	\$4,946	NextSeq High Output Kit PE150
				EBB	Run	\$607	NextSeq High Output Kit PE150 service only
				EBB	Run	\$1,034	MiniSeq High Output Kit SE75 or PE35
				EBB	Run	\$170	MiniSeq High Output Kit SE75 or PE35 service only
				EBB	Run	\$1,404	MiniSeq High Output Kit SE150 or PE75
				EBB	Run	\$198	MiniSeq High Output Kit SE150 or PE75 service only
				EBB	Run	\$1,865	MiniSeq High Output Kit PE150
				EBB	Run	\$318	MiniSeq High Output Kit PE150 service only
				EBB	Run	\$678	MiniSeq Mid Output Kit PE150
				EBB	Run	\$117	MiniSeq Mid Output Kit PE150 service only
				EBB	Chip	\$224	Bioanalyzer 2100 (DNA 1000)
				EBB	Chip	\$253	Bioanalyzer 2100 (DNA HS)
				EBB	Chip	\$227	Bioanalyzer 2100 (RNA)
				EBB	Chip	\$224	Bioanalyzer 2100 w/o seq at core (DNA 1000)
				EBB	Chip	\$253	Bioanalyzer 2100 w/o seq at core (DNA HS)
				EBB	Chip	\$233	Bioanalyzer 2100 w/o seq at core (RNA)
				EBB	Chip	\$233	Bioanalyzer 2100 w/o seq at core (protein)
				EBB	Hour	\$24	"Andrew" pipetting robot
				EBB	Use	\$438	Set up fee for Andrew pipetting Robot
				EBB	Sample	\$47	DNA Extraction /sample
				EBB	Sample	\$181	RNA Extraction /sample
				EBB	Reaction	\$75	Error Prone PCR
				EBB	Library	\$664	Error Prone PCR with Library Construction
				EBB	Library	\$1,678	Custom Region Saturated mutagenesis library
				EBB	Units	\$105	Taq DNA polymerase, 1000 units
				EBB	Loads	\$206	DNA ladder, 100
				EBB	Set	\$1,274	GT XT custom adapter primers SetA
				EBB	Set	\$1,274	GT XT custom adapter primers SetB
				EBB	Set	\$1,274	GT XT custom adapter primers SetC
				EBB	Set	\$1,274	GT XT custom adapter primers SetD
				EBB	Sleeve	\$81	Agar plates (per 20 plates)
				EBB	Colonies	\$368	Colony Picking, 1000 colonies
				EBB	Reacton	\$7	Sanger sequencing
				EBB	Vial	\$129	Gel purification of the NGS libraries
				EBB	Sample	\$6	Qubit DNA measurment /sample
				EBB	Sample	\$91	NGS DNA Library preparation NEB
				EBB	Sample	\$65	NGS plasmid sequencing
				EBB	Month/User	\$404	Cell culture room usage
				EBB	Tube	\$6	Antibiotics stock solutions

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					Basis	Amount	
59.	Heat Lab	ME	3/1/16	10/31/17	Hour	\$19	<u>Internal / Educational Institutions</u>
					Hour	\$9	High Cost Equipment Usage
					Hour	\$23	Low Cost Equipment Usage
							Measurement Service
							External / Industrial:
					Hour	\$19	High Cost Equipment Usage
					Hour	\$9	Low Cost Equipment Usage
					Hour	\$23	Measurement Service
60.	Acoustics Water Tank Lab	ME	5/2/16	10/31/17	Hour	\$61	<u>Internal / Other Georgia Tech Departments</u>
					Hour	\$70	Underwater Acoustic Measurements
					Hour	\$88	<u>External / Other Educations Institutions</u> Underwater Acoustic Measurements
						<u>External /Corporate</u> Underwater Acoustic Measurements	
61.	Mechanical Properties Characterization Facility	IMaT	6/1/16	9/24/18	Hour	\$50	<u>Internal / Other Georgia Tech Departments</u>
					Day	\$35	Personal Services
					Week	\$150	Test System Base Daily
					Day	\$10	Test System Base Weekly
					Week	\$45	Ovens & Furnaces Daily
					Hour	\$5	Ovens & Furnaces Weekly
							Metallography Prep Facility Hourly
							<u>External /Industry</u>
					Hour	\$80	Personal Services
					Day	\$92	Test System Base Daily
					Week	\$450	Test System Base Weekly
					Day	\$30	Ovens & Furnaces Daily
					Week	\$135	Ovens & Furnaces Weekly
					Hour	\$15	Metallography Prep Facility Hourly
62.	Center for X-Ray Diffraction Structure Analysis	Chem	9/20/16	10/30/18	Per Analysis	\$300	Full Service Structure Analysis
					Per Hour	\$75	Personnel Assistance
					Per Hour	\$25	Instrument Services

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					Basis	Amount	
63.	Systems Mass Spectrometry Center	IBB	11/9/16	9/21/18			<u>GT & External Educational Institutes</u>
					Per Sample	\$20	Sample Preparation - Proteomics
					Per Sample	\$80	LC-MS/MS Analysis - Proteomics
					Per Sample	\$8	Data Analysis - Proteomics
					Per Sample	\$6	Sample Preparation - Metabolomics
					Per Sample	\$35	LC-MS/MS Analysis - Metabolomics
					Per Sample	\$10	Data Analysis - Metabolomics
					Per Sample	\$30	Additional Data Processing
							<u>GT Industry Partners</u>
					Per Sample	\$40	Sample Preparation - Proteomics
					Per Sample	\$155	LC-MS/MS Analysis - Proteomics
					Per Sample	\$20	Data Analysis - Proteomics
					Per Sample	\$10	Sample Preparation - Metabolomics
					Per Sample	\$50	LC-MS/MS Analysis - Metabolomics
					Per Sample	\$14	Data Analysis - Metabolomics
					Per Sample	\$40	Additional Data Processing
							<u>Industry</u>
					Per Sample	\$104	Sample Preparation - Proteomics
					Per Sample	\$155	LC-MS/MS Analysis - Proteomics
					Per Sample	\$45	Data Analysis - Proteomics
Per Sample	\$53	Sample Preparation - Metabolomics					
Per Sample	\$59	LC-MS/MS Analysis - Metabolomics					
Per Sample	\$18	Data Analysis - Metabolomics					
Per Sample	\$101	Additional Data Processing					
65.	GVU Prototyping Lab	SoIC	7/1/18	9/7/18			<u>Internal/Federal</u>
					Cubic Inch	\$14	Dimesnison ABS Printer
					Cubic Inch	\$16	3D Systems Project (SD)
					Cubic Inch	\$17	3D Systems Project (HD)
							<u>External (Industry)</u>
					Cubic Inch	\$33	Dimesnison ABS Printer
					Cubic Inch	\$44	3D Systems Project (SD)
Cubic Inch	\$47	3D Systems Project (HD)					

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					Basis	Amount	Service	
66.	Biomolecular Characterization and Analysis	IBB/EBB	7/1/17	9/21/18	<u>Location</u>		<u>Internal</u>	
					IBB, EBB	Hour	\$0	Personal Services (Training), per hour
					IBB	Hour	\$5	BioTek Synergy H4 Multimode Plate Reader
					IBB	Hour	\$5	QuantStudio 6 Flex rtPCR
					IBB	Hour	\$5	Applied Biosystems StepOne Plus rtPCR#2
					IBB	Hour	\$20	Arcturus XT Laser Capture Microdissection System
					IBB	Hour	\$0	AMAXA Electroporation Device
					IBB	Hour	\$5	Amersham RGB 600 Imager
					IBB	Hour	\$5	Optima XPN Ultracentrifuge
					IBB	Hour	\$2	Allegra benchtop centrifuge
					IBB	Hour	\$2	Microcentrifuge
					IBB	Hour	\$10	FAST prep 24 homogenizer
					IBB	Hour	\$5	High performance centrifuge
					IBB	Hour	\$10	GE FLA 9500
					IBB	Flask	\$5	Freeze-zone Freeze Dry System
					IBB	Hour	\$5	LI-COR imager
					EBB	Hour	\$10	AP Chirascan-Plus
					EBB	Hour	\$5	BioTek Synergy H4 (short)
					EBB	Day	\$30	BioTek Synergy H4 (long)
					EBB	Hour	\$3	GE AKTA Pure 25
					EBB	Hour	\$0	GE Ultrospec 2100 Pro
					EBB	Hour	\$15	Olis RSM1000
					EBB	Hour	\$5	Shimadzu Prominence
					EBB	Per Session	\$0	Shimadzu Prominence
					EBB	Hour	\$0	Stratagene Mx3005P
					EBB	Hour	\$10	Wyatt DynaPro NanoStar
					EBB	Hour	\$10	Malvern Viscotek SEC-MALS 20
					EBB	Hour	\$10	Malvern Zetasizer Nano Z
					EBB	Hour	\$10	Wyatt Dynapro Plate Reader
					EBB	Hour	\$5	Nano Temper Promethius
					EBB	Hour	\$5	Ultracentrifuge
					EBB	Hour	\$5	High Speed Centrifuge Avanti
					EBB	Hour	\$5	Isothermal calorimetry
					EBB	Hour	\$10	Differential Scanning Calorimetry
					EBB	Sample	\$50	Analytical ultracentrifuge

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No.	Name of Rate Study	Department	Rate Study Date	Annual Validation Date	Rates		Service
					Basis	Amount	
							<u>Affiliates and Industry Partners</u>
				IBB, EBB	Hour	\$45	Personal Services (Training), per hour
				IBB	Hour	\$7.50	BioTek Synergy H4 Multimode Plate Reader
				IBB	Hour	\$7	QuantStudio 6 Flex rtPCR
				IBB	Hour	\$7	Applied Biosystems StepOne Plus rtPCR#2
				IBB	Hour	\$40	Arcturus XT Laser Capture Microdissection System
				IBB	Hour	\$5	AMAXA Electroporation Device
				IBB	Hour	\$7.50	Amersham RGB 600 Imager
				IBB	Hour	\$7.50	Optima XPN Ultracentrifuge
				IBB	Hour	\$5	Allegra benchtop centrifuge
				IBB	Hour	\$5	Microcentrifuge
				IBB	Hour	\$20	FAST prep 24 homogenizer
				IBB	Hour	\$13	High performance centrifuge
				IBB	Hour	\$15	GE FLA 9500
				IBB	Flask	\$10	Freeze-zone Freeze Dry System
				IBB	Hour	\$7.50	LI-COR imager
				EBB	Hour	\$15	AP Chirascan-Plus
				EBB	Hour	\$8	BioTek Synergy H4 (short)
				EBB	Day	\$50	BioTek Synergy H4 (long)
				EBB	Hour	\$8	GE AKTA Pure 25
				EBB	Hour	\$5	GE Ultrospec 2100 Pro
				EBB	Hour	\$20	Olis RSM1000
				EBB	Hour	\$9	Shimadzu Prominence
				EBB	Per Session	\$65	Shimadzu Prominence
				EBB	Hour	\$5	Stratagene Mx3005P
				EBB	Hour	\$15	Wyatt DynaPro NanoStar
				EBB	Hour	\$15	Malvern Viscotek SEC-MALS 20
				EBB	Hour	\$15	Malvern Zetasizer Nano Z
				EBB	Hour	\$15	Wyatt Dynapro Plate Reader
				EBB	Hour	\$16	Nano Temper Promethius
				EBB	Hour	\$8	Ultracentrifuge
				EBB	Hour	\$13	High Speed Centrifuge Avanti
				EBB	Hour	\$8	Isothermal calorimetry
				EBB	Hour	\$15	Differential Scanning Calorimetry
				EBB	Sample	\$100	Analytical ultracentrifuge

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No.	Name of Rate Study	Department	Rate Study Date	Annual Validation Date	Rates		
					Basis	Amount	Service
							<u>External (Industry)</u>
				IBB, EBB	Hour	\$45	Personal Services (Training), per hour
				IBB	Hour	\$11	BioTek Synergy H4 Multimode Plate Reader
				IBB	Hour	\$7	QuantStudio 6 Flex rtPCR
				IBB	Hour	\$8	Applied Biosystems StepOne Plus rtPCR#2
				IBB	Hour	\$100	Arcturus XT Laser Capture Microdissection System
				IBB	Hour	\$5	AMAXA Electroporation Device
				IBB	Hour	\$15	Amersham RGB 600 Imager
				IBB	Hour	\$15	Optima XPN Ultracentrifuge
				IBB	Hour	\$10	Allegra benchtop centrifuge
				IBB	Hour	\$10	Microcentrifuge
				IBB	Hour	\$40	FAST prep 24 homogenizer
				IBB	Hour	\$13	High performance centrifuge
				IBB	Hour	\$20	GE FLA 9500
				IBB	Flask	\$20	Freeze-zone Freeze Dry System
				IBB	Hour	\$15	LI-COR imager
				EBB	Hour	\$22	AP Chirascan-Plus
				EBB	Hour	\$11	BioTek Synergy H4 (short)
				EBB	Day	\$65	BioTek Synergy H4 (long)
				EBB	Hour	\$8	GE AKTA Pure 25
				EBB	Hour	\$10	GE Ultrospec 2100 Pro
				EBB	Hour	\$40	Olis RSM1000
				EBB	Hour	\$9	Shimadzu Prominence
				EBB	Per Session	\$130	Shimadzu Prominence
				EBB	Hour	\$20	Stratagene Mx3005P
				EBB	Hour	\$20	Wyatt DynaPro NanoStar
				EBB	Hour	\$15	Malvern Viscotek SEC-MALS 20
				EBB	Hour	\$29	Malvern Zetasizer Nano Z
				EBB	Hour	\$24	Wyatt Dynapro Plate Reader
				EBB	Hour	\$16	Nano Temper Promethius
				EBB	Hour	\$15	Ultracentrifuge
				EBB	Hour	\$13	High Speed Centrifuge Avanti
				EBB	Hour	\$20	Isothermal calorimetry
				EBB	Hour	\$25	Differential Scanning Calorimetry
				EBB	Sample	\$261	Analytical ultracentrifuge
67.	IDEAS: MD3	IMaT	7/1/17	10/15/18			<u>Internal & Federal Users</u>
					12 Mths	\$6,105	MATIN Annual (12mth) Support Package
					1 Month	\$733	MATIN Monthly Package
					10 Hours	\$665	Additional Support Package (10 Hrs)
							<u>External</u>
					12 Mths	\$6,105	MATIN Annual (12mth) Support Package
					1 Month	\$733	MATIN Monthly Package
					10 Hours	\$665	Additional Support Package (10 Hrs)

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					Basis	Amount	
68.	STAMI Polymer and Molecular Characterization Facility	Chem	7/1/17	10/29/18			
							<u>Internal Trained Users</u>
					Hour	\$5.00	TA Q200
					Hour	\$5.00	Perkin Elmer Pyris 1
					Hour	\$5.00	Malvern Viscotek (THF)
					Hour	\$7.00	Tosoh GPC
					Hour	\$5.00	Tosoh GPC (tri-chlorobenzene)
					Hour	\$5.00	Wyatt DynaPro NanoStar DLS
					Hour	\$5.00	Horiba Jobin Yvon Fluorimeter FL-1005
					Hour	\$5.00	Horiba Jobin Yvon Fluorimeter FL3-21
					Hour	\$5.00	Shimadzu IR Prestige 21
					Hour	\$5.00	Cary 5000
					Hour	\$6.00	Aligent 7890a & 5975C
					Hour	\$8.00	Agilent 6120BMS, 1260 LC
					Hour	\$5.00	Contact Angle Goniometer
							<u>Internal Sample Run & Training</u>
					Hour	\$29.30	TA Q200
					Hour	\$40.00	Perkin Elmer Pyris 1
					Hour	\$40.00	Malvern Viscotek (THF)
					Hour	\$50.00	Tosoh GPC
					Hour	\$40.00	Tosoh GPC (tri-chlorobenzene)
					Hour	\$40.00	Wyatt DynaPro NanoStar DLS
					Hour	\$35.97	Horiba Jobin Yvon Fluorimeter FL-1005
					Hour	\$35.44	Horiba Jobin Yvon Fluorimeter FL3-21
					Hour	\$35.62	Shimadzu IR Prestige 21
					Hour	\$32.82	Cary 5000
					Hour	\$50.00	Aligent 7890a & 5975C
					Hour	\$60.00	Agilent 6120BMS, 1260 LC
					Hour	\$40.00	Contact Angle Goniometer
							<u>External Users</u>
					Hour	\$29.30	TA Q200
					Hour	\$56.84	Perkin Elmer Pyris 1
					Hour	\$58.53	Malvern Viscotek (THF)
					Hour	\$61.24	Tosoh GPC
					Hour	\$89.48	Tosoh GPC (tri-chlorobenzene)
					Hour	\$106.92	Wyatt DynaPro NanoStar DLS
					Hour	\$35.97	Horiba Jobin Yvon Fluorimeter FL-1005
					Hour	\$35.44	Horiba Jobin Yvon Fluorimeter FL3-21
					Hour	\$35.62	Shimadzu IR Prestige 21
					Hour	\$32.82	Cary 5000
					Hour	\$79.91	Aligent 7890a & 5975C
					Hour	\$127.62	Agilent 6120BMS, 1260 LC
					Hour	\$94.90	Contact Angle Goniometer

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					Basis	Amount	
69.	Bioimaging and Biomechanical Properties Testing	IBB	7/1/17	9/21/18	<u>GEORGIA TECH INTERNAL USERS</u>		
					Hour	\$50.80	CT Personal Services, per hour
					Unit	\$3.95	Set Up Charge
					Per Slice	\$0.05	Medium Resolution, per slice
					Per Slice	\$0.14	High Resolution, per slice
					Per Slice	\$1.06	Custom Resolution, per slice
					Hour	\$25.00	Fluorescence / Bioluminescence imaging, per hour
					Hour	\$13.69	Biomechanics Machine Services, per hour
					<u>EDUCATIONAL INSTITUTES & IBB INDUSTRY PARTNERS</u>		
					Hour	\$59.84	CT Personal Services, per hour
					Unit	\$4.47	Set Up Charge
					Per Slice	\$0.06	Medium Resolution, per slice
					Per Slice	\$0.16	High Resolution, per slice
					Per Slice	\$1.20	Custom Resolution, per slice
					Hour	\$48.00	Fluorescence / Bioluminescence imaging, per hour
					Hour	\$15.51	Biomechanics Machine Services, per hour
					<u>INDUSTRY</u>		
					Hour	\$69.89	CT Personal Services, per hour
					Unit	\$5.24	Set Up Charge
					Per Slice	\$0.07	Medium Resolution, per slice
					Per Slice	\$0.19	High Resolution, per slice
Per Slice	\$1.42	Custom Resolution, per slice					
Hour	\$97.43	Fluorescence / Bioluminescence imaging, per hour					
Hour	\$18.20	Biomechanics Machine Services, per hour					
70.	Electrical Testing of Materials and Devices	MSE	7/1/17	9/10/18	<u>Internal</u>		
					Sample	\$250	Initial Test Sample
					Use	\$250	Standard Setup
					Sample	\$100	Repeat of Initial Test Sample
					Cost	Cost	Non Standard Setup (Material)
					Hour	\$148	Director Consulting
					Hour	\$50	GRA Consulting
					<u>External (Industry)</u>		
					Sample	\$255	Initial Test Sample
					Use	\$257	Standard Setup
					Sample	\$160	Repeat of Initial Test Sample
					Cost	Cost	Non Standard Setup (Material)
					Hour	\$148	Director Consulting
					Hour	\$64	GRA Consulting
71.	Tribology & Surface Engineering Lab	ME	7/1/18	<u>Internal/Federal</u>			
				Hour	\$50	Lab Rate	
				<u>External (Industry)</u>			
				Hour	\$50	Lab Rate	

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					Basis	Amount		
72.	TKIS-GT Pyro Processing Lab	MSE	7/1/18			<u>Internal /Federal</u>		
						Test	\$1,534	Per Test
						Hour	\$122	Instrument/Kiln Only Per Hour
						Hour	\$51	Senior Scientist
						Hour	\$185	Senior Consultant
								<u>External (TKIS Users)</u>
						Test	\$1,534	Per Test
						Hour	\$122	Instrument/Kiln Only Per Hour
						Hour	\$51	Senior Scientist
						Hour	\$185	Senior Consultant
								<u>External (Industry)</u>
						Test	\$1,534	Per Test
Hour	\$122	Instrument/Kiln Only Per Hour						
Hour	\$51	Senior Scientist						
Hour	\$185	Senior Consultant						
73.	TEP Core Lab	BME	7/1/18			<u>Internal</u>		
						Per Slide	\$2	Histology
						Hour	\$16	Microscopy
						Hour	\$5	Biomolecular Analysis
						Per Cycle	\$25	Sterilization
								<u>External Academic</u>
						Per Slide	\$2	Histology
						Hour	\$22	Microscopy
						Hour	\$7	Biomolecular Analysis
						Per Cycle	\$25	Sterilization
								<u>External</u>
						Per Slide	\$100	Histology
Hour	\$158	Microscopy						
Hour	\$100	Biomolecular Analysis						
Per Cycle	\$32	Sterilization						

No.	Name of Rate Study	Department	Rate Study Date	Annual Validation Date	Rates		Service
					Basis	Amount	

Facility Use Rate

These are rates established for the infrequent and non-recurring use by external entities of Georgia Tech lab facilities that are unique and not commercially available.

13.	Stable Isotope Facility	EAS	8/25/14	10/2/17	Hour	\$18	<u>Other Academic</u> Machine Service
						\$37	<u>Corporate</u> Machine Service
15.	Center for the Study of Systems Biology	Biology	10/26/15	9/20/17	Computation	\$1,000	<u>CORPORATE</u> Computational Services