

Georgia Institute of Technology
Grants and Contracts Accounting
Service/Recharge Center Rate Studies
1/14/2020

No.	Name of Rate Study	Department	Rate Study Date	Annual Validation Date	Rates		
					Basis	Amount	Service
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 LEO 1530 Hour \$17 LEO 1550 Hour \$10 Hitachi SU8010 Hour \$16 JEOL 100CX-2 Hour \$22 JEOL TEM 4000EX Hour \$23 Hitachi HF-2000 Hour \$40 Tenaci F30 Hour \$8 Atomic Force Hour \$5 Gold / Carbon Hour \$5 Au-Pd Tier 3 (200-300 Hours / Machine) Hour \$132 Personal Services-Director Hour \$94 Personal Services-Research Scientist Hour \$8 LEO 1530 Hour \$8 LEO 1550 Hour \$5 Hitachi SU8010 Hour \$8 JEOL 100CX-2 Hour \$11 JEOL TEM 4000EX Hour \$11 Hitachi HF-2000 Hour \$20 Tenaci F30 Hour \$4 Atomic Force Hour \$3 Gold / Carbon Hour \$3 Au-Pd

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					Basis	Amount	Service
							Tier 4 (300 - 10,000 Hours / Machine)
					Hour	\$132	Personal Services-Director
					Hour	\$94	Personal Services-Research Scientist
					Hour	\$3	LEO 1530
					Hour	\$3	LEO 1550
					Hour	\$2	Hitachi SU8010
					Hour	\$3	JEOL 100CX-2
					Hour	\$4	JEOL TEM 4000EX
					Hour	\$5	Hitachi HF-2000
					Hour	\$8	Tenaci F30
					Hour	\$2	Atomic Force
					Hour	\$1	Gold / Carbon
					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	1/1/20	10/22/19	Hour	\$127	Senior Research Engineer
					Hour	\$95	Research Engineers
					Hour	\$70	Research Coordinators
					Hour	\$44	Research Technicians
4.	NEETRAC Platform Services	ECE	7/1/18	10/22/19	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			<u>Educational Institutions</u>
					Hour	\$40	Personal Services, Other
							Tier A (4)
					Hour	\$13	Premium Rate (8AM-6PM) (3)
					Hour	\$7	Non-premium time
							Tier B (5)
					Hour	\$16	Premium Rate (8AM-6PM) (3)
					Hour	\$8	Non-premium time
							Tier C (6)
					Hour	\$30	Premium Rate (8AM-6PM) (3)
					Hour	\$20	Non-premium time
							<u>External</u>
					Hour	\$126	Personal Services, Other
							Machine Service, per hour:
Hour	\$69	Premium Rate (8AM-6PM) (3)					
Hour	\$69	Non-premium time					
7.	Materials Characterization Facility	IEN	12/15/14	9/19/18			<u>Internal / External Academic</u>
					Hour	\$100	Operator/ Consultation
							Equipment Group 1
					Hour	\$40	Hitachi HT7700 TEM
					Hour	\$35	Hitachi SU8230
					Hour	\$35	Thermo K-Alpha XPS
					Hour	\$35	Zeiss Ultra60 FE-SEM
							Equipment Group 2
					Hour	\$45	FEI Nova Nanolab 200 FIB/SEM
					Hour	\$45	FEI Quanta 200 3D FIB/SEM
					Hour	\$45	IONTOF Time-of-Flight SIMS
					Hour	\$45	Kratos XPS
							Equipment Group 3
					Hour	\$20	Hysitron TribolIndenter
Hour	\$20	Raman Spectrometer					
Hour	\$20	Veeco AFM					
Hour	\$20	Veeco AFM II Dimension 3100					
Hour	\$20	Hummer 6 Gold/Palladium Sputter					

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					Basis	Amount	Service
							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
							Industrial
							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 TriboIndenter
				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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					Basis	Amount	Service					
9.	Cleanroom Access	IEN	9/1/19	9/19/18			<u>Internal Academic</u>					
					Month	\$220	Facility Entry Fee, (Inorganic Cleanroom)					
					Month	\$0	Facility Entry Fee, (Organic Cleanroom)					
					Hour	\$22	Cleanroom Supply Use					
					Hour	\$100	Research/Equipment Services Time					
					Month	\$3,000	Special Projects Usage					
							<u>External Academic</u>					
					Month	\$220	Facility Entry Fee, (Inorganic Cleanroom)					
					Month	\$0	Facility Entry Fee, (Organic Cleanroom)					
					Hour	\$22	Cleanroom Supply Use					
					Hour	\$100	Research/Equipment Services Time					
							<u>INDUSTRIAL RATES</u>					
					Month	\$605	Facility Entry Fee, (Inorganic Cleanroom)					
					Month	\$0	Facility Entry Fee, (Organic Cleanroom)					
					Hour	\$22	Cleanroom Supply Use					
					Hour	\$100	Research/Equipment Services Time					
					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			<u>INTERNAL (GA Tech)</u>					
					Hour	\$12	Personal Services					
					Hour	\$12	Instrument Services					
							<u>OTHER EDUCATIONAL INSTITUTIONS RATE</u>					
					Hour	\$12	Personal Services					
					Hour	\$12	Instrument Services					
							<u>INDUSTRIAL RATE</u>					
					Hour	\$117	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	Service
18.	Histology Lab	IBB	6/26/14	9/21/18	Hour	\$16	<u>GT Internal</u> Personal Services
					Sample	\$3.00	Processing: Parraffin (Routine)
					Sample	\$5.00	Parraffin (Special)
					Sample	\$5.00	Resin (Epoxy)
					Sample	\$10.00	Resin (GMA)
					Sample	\$12.00	Resin (MMA)
					Sample	\$5.00	Embedding: Frozen
					Sample	\$1.00	Parraffin (Routine)
					Sample	\$8.00	Parraffin (Special)
					Sample	\$6.00	Resin (Epoxy)
					Sample	\$6.00	Resin (GMA)
					Sample	\$6.00	Resin (MMA)
					Slide	\$2.00	Sectioning: Frozen
					Slide	\$0.50	Paraffin
					Slide	\$2.00	Microtome
					Cut	\$5.00	Isomet
					Slide	\$10.00	Exakt Grinding
					Slide	\$2.00	Staining: H&E
					Slide	\$5.00	Special
					Slide	\$8.00	IHC
					Sample	\$5.00	Other Decalcification
					Slide	\$5.00	Antigen Retrieval
					Slide	\$1.00	Coverslipping
						COST	Supplies - Pass Through
					Hour	\$24.00	<u>Other Academic & Industry Partner</u> Personal Services
					Sample	\$6.00	Processing: Parraffin (Routine)
					Sample	\$6.00	Parraffin (Special)
					Sample	\$10.00	Resin (Epoxy)
					Sample	\$15.00	Resin (GMA)
					Sample	\$20.00	Resin (MMA)
					Sample	\$6.00	Embedding: Frozen
					Sample	\$3.00	Parraffin (Routine)
					Sample	\$10.00	Parraffin (Special)
					Sample	\$24.00	Resin (Epoxy)
					Sample	\$24.00	Resin (GMA)
					Sample	\$24.00	Resin (MMA)

No.	Name of Rate Study	Department	Rate Study Date	Annual Validation Date	Rates		Service
					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	Parraffin (Routine)
					Sample	\$10.00	Parraffin (Special)
					Sample	\$17.00	Resin (Epoxy)
					Sample	\$35.00	Resin (GMA)
					Sample	\$50.00	Resin (MMA)
							Embedding:
					Sample	\$11.00	Frozen
					Sample	\$7.00	Parraffin (Routine)
					Sample	\$23.00	Parraffin (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	Service
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	RBI	10/1/19	8/27/18	Hour	\$90	<u>INTERNAL, ACADEMIC, INDUSTRY MEMBERS</u> Senior Scientist
					Hour	\$68	Analyst
					Hour	\$99	<u>INDUSTRIAL - NON-MEMBER</u> Senior Scientist
					Hour	\$75	Analyst
					Hour	\$60	Consulting Services
22.	Technical Services Organization	CoC	11/6/15	9/18/18	EFT per year	\$6,123	Computing & Networking Services
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	6/1/18	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
26.	3-D Printer	COD	7/14/17	9/17/18			<u>GT Student Enrolled in COD Studio</u>
					Cubic Inch	\$4.75	Dimension FDM Printing
					ML	\$0.37	Form 2 - High Res Clear and White
					ML	\$0.50	Form 2 - Rubber
					Cubic Inch	\$5.50	Zcorp - Powder
							<u>Internal Non COD & Federal Entities</u>
27.	Telecom	OIT	7/1/18	9/10/18			<u>Internal</u>
					FTE	\$475.00	Telecom
							<u>Internal</u>
					Group per Semester	\$1,264.29	Lab Coordination and Communications Fee
					Group per Semester	\$112.41	Lab Supplies and Services
					Group per Semester	\$52.49	Lab Gas Charges
28.	Neuro Lab	BME	11/28/15	9/10/18			<u>External</u>
					Hour	\$9.03	Instrument Services
							<u>Internal</u>
					Hour	\$30	Personal Services
					Hour	\$30	Instrument Services
							<u>Industrial</u>
29.	Microanalysis Center	MSE	3/28/14	9/16/18			<u>Industrial</u>
					Hour	\$36	Personal Services
					Hour	\$45	Instrument Services
					Hour	\$45	Instrument Services

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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>
							Personal Services - (1 hour minimum)
							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>
							Weekend / Evening
							Consulting Services
		Facility Use					
			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			GT Users
					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 Cartidge	\$200	BioRad ddSEQ
					unit	\$5	Step One PLUS 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
							<u>Internal/Federal</u>
41.	Cryo-EM Center	Biology	7/1/18	10/23/17	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
							<u>Internal</u>
43.	Invention Studio Center	ME	7/1/18	10/31/17	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

No.	Name of Rate Study	Department	Rate Study Date	Annual Validation Date	Rates		
					Basis	Amount	Service
47.	High Performance Computing (HPC)	OIT	1/1/19	10/10/18			Internal/External
					Service A - Total Flat Rate Per Compute Server:	\$2,665	Service A - Infrastructure and Support
					Service B - Total Flat Rate Per TB of Storage:	\$80	Service B - DDN Project Storage
					Service C - Total Flat Rate Per Compute Server:	\$3,199	Service C - ITAR Infrastructure and Support
					Service D - Total Flat Rate Per TB of Storage:	\$187	Service D - ITAR Storage
					Service E - Total Flat Rate Per TB of Storage:	\$41	Service E - Archival Storage
					Service F - Total Flat Rate Per TB of Storage:	\$112	Service F - Dataset Publication
							Service A
					CPU Hourly Rates	\$0.0486	8 Core Node:
					CPU Hourly Rates	\$0.0324	12 Core Node:
					CPU Hourly Rates	\$0.0243	16 Core Node:
					CPU Hourly Rates	\$0.0194	20 Core Node:
					CPU Hourly Rates	\$0.0162	24 Core Node:
					CPU Hourly Rates	\$0.0139	28 Core Node:
					CPU Hourly Rates	\$0.0121	32 Core Node:
					CPU Hourly Rates	\$0.0108	36 Core Node:
					CPU Hourly Rates	\$0.0097	40 Core Node:
					CPU Hourly Rates	\$0.0069	56 Core Node:
					CPU Hourly Rates	\$0.0059	64 Core Node:
							ITAR
					CPU Hourly Rates	\$0.0583	8 Core Node:
					CPU Hourly Rates	\$0.0389	12 Core Node:
					CPU Hourly Rates	\$0.0292	16 Core Node:
					CPU Hourly Rates	\$0.0233	20 Core Node:
					CPU Hourly Rates	\$0.0194	24 Core Node:
					CPU Hourly Rates	\$0.0167	28 Core Node:
					CPU Hourly Rates	\$0.0146	32 Core Node:
					CPU Hourly Rates	\$0.0130	36 Core Node:
					CPU Hourly Rates	\$0.0117	40 Core Node:
					CPU Hourly Rates	\$0.0083	56 Core Node:
					CPU Hourly Rates	\$0.0071	64 Core Node:
							External (includes GTRI):
					Service B - Total Flat Rate Per TB of Storage:	\$83.00	Service B - DDN Project Storage

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					Basis	Amount	Service
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
		SEM + EBSD					
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	Stratasys 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	Stratasys MOJO					

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No.	Name of Rate Study	Department	Rate Study Date	Annual Validation Date	Rates		
					Basis	Amount	Service
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	Service
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
							Tier 1 (1st 0-150 Hours / Machine)
					Hour	\$34.00	Personal Services
					Hour	\$17.00	X-Ray Services
							Tier 2 (1st 151-300 Hours / Machine)
					Hour	\$17.00	Personal Services
					Hour	\$8.50	X-Ray Services
							Tier 3 (1st 301-450 Hours / Machine)
					Hour	\$8.50	Personal Services
					Hour	\$4.25	X-Ray Services
							Tier 4 (1st 451+ Hours / Machine)
					Hour	\$3.40	Personal Services
					Hour	\$1.70	X-Ray Services
		<u>Industrial</u>					
		Personal Services					
		X-Ray Services					
55.	Neuro Design Suite	IBB	5/11/15	9/21/18			<u>GA Tech</u>
					Hour	\$85.00	Machine Service
							<u>Other Academic</u>
					Hour	\$100.00	Machine Service
							<u>Industrial</u>
					Hour	\$125.00	Machine Service
57.	Precision Services Lab	ME	9/28/15	10/13/17			<u>Educational Institutions</u>
					Hour	\$193.00	CT Scanner
					Hour	\$171.00	Equipment Use
							<u>Industrial</u>
					Hour	\$193.00	CT Scanner
					Hour	\$171.00	Equipment Use

No.	Name of Rate Study	Department	Rate Study Date	Annual Validation Date	Rates		
					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
		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

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					Basis	Amount	Service
			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 Genius DNA analysis software

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No.	Name of Rate Study	Department	Rate Study Date	Annual Validation Date	Rates		
					Basis	Amount	Service
							<u>External Academic/Industry Partners</u>
				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
				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

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No.	Name of Rate Study	Department	Rate Study Date	Annual Validation Date	Rates		
					Basis	Amount	Service
			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	Service
							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 measurement /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	Service
59.	Heat Lab	ME	3/1/16	10/31/17	Hour	\$19	<u>Internal / Educational Institutions</u> High Cost Equipment Usage
					Hour	\$9	Low Cost Equipment Usage
					Hour	\$23	Measurement Service
					Hour	\$19	External / Industrial: 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> Underwater Acoustic Measurements
					Hour	\$70	<u>External / Other Educational Institutions</u> Underwater Acoustic Measurements
					Hour	\$88	<u>External / Corporate</u> Underwater Acoustic Measurements
61.	Mechanical Properties Characterization Facility	IMaT	7/1/19	9/24/18	Hour	\$60	<u>Internal / Other Georgia Tech Departments</u> Personal Services
					Day	\$100	Test System Base Daily
					Week	\$250	Test System Base Weekly
					Day	\$20	Ovens & Furnaces Daily
					Week	\$50	Ovens & Furnaces Weekly
					Hour	\$5	Metallography Prep Facility Hourly
					Hour	\$70	<u>External / Industry</u> Personal Services
					Day	\$178	Test System Base Daily
					Week	\$892	Test System Base Weekly
					Day	\$65	Ovens & Furnaces Daily
					Week	\$327	Ovens & Furnaces Weekly
Hour	\$22	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	Service
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		
					Basis	Amount	Service
							<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)

No.	Name of Rate Study	Department	Rate Study Date	Annual Validation Date	Rates						
					Basis	Amount	Service				
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	Service
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	Service
72.	TKIS-GT Pyro Processing Lab	MSE	7/1/19			<u>Internal /Federal</u>	
				Test	\$1,300	Per Test	
				Hour	\$64	Instrument/Kiln Only Per Hour	
				Hour	\$51	Senior Scientist	
				Hour	\$184	Senior Consultant	
						<u>External (TKIS Users)</u>	
				Test	\$1,300	Per Test	
				Hour	\$64	Instrument/Kiln Only Per Hour	
				Hour	\$51	Senior Scientist	
				Hour	\$184	Senior Consultant	
						<u>External (Industry)</u>	
				Test	\$1,300	Per Test	
Hour	\$64	Instrument/Kiln Only Per Hour					
Hour	\$51	Senior Scientist					
Hour	\$184	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		
					Basis	Amount	Service
74.	Laser Machining Lab	IEN	9/1/19				<u>US Academic Institutions</u>
							Machine Class 1
				Hour	\$25		X-Ray Inspection System (DAGE)
				Hour	\$25		Sub-Micron Bonder (Finetech)
				Hour	\$25		60 Watt Laser System (Hermes LS500XL CO2)
				Hour	\$25		UV Micro Machining System (Resonetics IR laser)
				Hour	\$25		Labcoater Deposition System (SCS Parylene Coater)
				Hour	\$25		Wyko NT2000 Profilometer (VEECO)
							Machine Class 2
				Hour	\$35		Aerosol Jet 200 system (Optomec)
							Machine Class 3
				Hour	\$50		Optec WS Flex Laser Micromachining Base System
							<u>Foreign Academic Institutions</u>
							Machine Class 1
				Hour	\$35		X-Ray Inspection System (DAGE)
				Hour	\$35		Sub-Micron Bonder (Finetech)
				Hour	\$35		60 Watt Laser System (Hermes LS500XL CO2)
				Hour	\$35		UV Micro Machining System (Resonetics IR laser)
				Hour	\$35		Labcoater Deposition System (SCS Parylene Coater)
				Hour	\$35		Wyko NT2000 Profilometer (VEECO)
							Machine Class 2
				Hour	\$40		Aerosol Jet 200 system (Optomec)
							Machine Class 3
				Hour	\$76		Optec WS Flex Laser Micromachining Base System
							<u>Industrial:</u>
							Machine Class 1
				Hour	\$35		X-Ray Inspection System (DAGE)
				Hour	\$35		Sub-Micron Bonder (Finetech)
				Hour	\$35		60 Watt Laser System (Hermes LS500XL CO2)
				Hour	\$35		UV Micro Machining System (Resonetics IR laser)
				Hour	\$35		Labcoater Deposition System (SCS Parylene Coater)
				Hour	\$35		Wyko NT2000 Profilometer (VEECO)
							Machine Class 2
				Hour	\$40		Aerosol Jet 200 system (Optomec)
							Machine Class 3
				Hour	\$76		Optec WS Flex Laser Micromachining Base System

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