

Georgia Institute of Technology  
 Grants and Contracts Accounting  
 Service/Recharge Center Rate Studies  
 4/17/2017

No.	Name of Rate Study	Department	Rate	Annual	Rates		
			Study	Validation	Basis	Amount	Service
			Date	Date			
1.	Center for Nanostructure Characterization	MSE	10/13/14	9/30/16			
							<u>Educational Institutions</u>
							Tier Structure where total rates decline per group for each machine as usage increases
							<b>Tier 1 (1st 0-100 Hours / Machine)</b>
					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		Au-Pd
							<b>Tier 2 (100-200 Hours / Machine)</b>
					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
							<b>Tier 3 (200-300 Hours / Machine)</b>
					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
							<b>Tier 4 (300 - 10,000 Hours / Machine)</b>

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					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	4/1/16	10/6/16	Hour	\$36	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	10/5/16	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	11/30/10	10/5/16	Day	\$712	HVL Platform
					Day	\$215	Cable Platform
					Day	\$119	Mechanical Platform
					Day	\$250	MTF/Other Platform

Note: When platforms are used for multiple projects at the same time, hourly rates may be prorated among the users.

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5.	Machine Shop - College of Sciences	CoS	2/14/13	9/21/15	Hour	\$50	Full Service
					Hour	\$10	Machine Services, Students
6.	NMR Center	Chemistry	5/8/12	10/6/16			<u>EDUCATIONAL INSTITUTION RATES</u>
					Hour	\$30	Personal Services, Other
					Hour	\$11	Machine Services, Premium
					Hour	\$6	Machine Services, Non-premium
							<u>INDUSTRIAL RATES</u>
					Hour	\$176	Personal Services, Other
					Hour	\$18	Machine Services, Premium
					Hour	\$18	Machine Services, Non-premium
7.	Materials Characterization Facility	IEN	12/15/14	10/4/16			<u>Internal / External Academic</u>
					Hour	\$100	Operator/ Consultation
							<b>Equipment Group 1</b>
					Hour	\$40	Hitachi HT7700 TEM
					Hour	\$35	Hitachi SU8230
					Hour	\$35	Thermo K-Alpha XPS
					Hour	\$35	Zeiss Ultra60 FE-SEM
							<b>Equipment Group 2</b>
					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
							<b>Equipment Group 3</b>
					Hour	\$20	Hysitron TriboIndenter
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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			Date	Date				
								<b>Equipment Group 4</b>
					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>
								<b>Equipment Group 1</b>
					Hour	\$100		Hitachi HT7700 TEM
					Hour	\$100		Hitachi SU8230
					Hour	\$70		Thermo K-Alpha XPS
					Hour	\$100		Zeiss Ultra60 FE-SEM
								<b>Equipment Group 2</b>
					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
								<b>Equipment Group 3</b>
					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
								<b>Equipment Group 4</b>
					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	10/3/16	Hour	\$100	<u>Academic &amp; Industrial Rates</u> Operator / Consultation
9.	Cleanroom Access	IEN	9/15/14	9/30/16	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	10/6/16	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
11.	Rapid Prototyping and Manufacturing Lab (RPMI)	MARC	2/7/11	9/25/15	Hour	\$40	<u>Personal Services/Machine Services Rate:</u> Stereolithography Apparatus
					Hour	\$25	Instrument Services
					Hour	\$17	Fused Deposition Modeling
					Hour	\$17	Instrument Services
					Hour	\$13	Multi Jet Modeler
					Hour	\$13	Instrument Services
					Hour	\$10	FMSL Microfabrication Machine
					Hour	\$10	Instrument Services

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12.	Precision Machining Research Center (PMRC)	MARC	5/10/12	9/25/15			<u>OTHER GEORGIA TECH DEPARTMENTS:</u>
					Hour	\$30	Personal Services
					Hour	\$15	Instrument Services
					Hour	\$30	Machine Services
							<u>OTHER EDUCATIONAL INSTITUTIONS:</u>
					Hour	\$35	Personal Services
					Hour	\$25	Instrument Services
					Hour	\$35	Machine Services
							<u>CORPORATE:</u>
					Hour	\$45	Personal Services
					Hour	\$35	Instrument Services
					Hour	\$45	Machine Services
14.	Packaging Research Center (PRC)	ECE	9/1/00	9/27/16			<u>INDUSTRIAL APPLIED RESEARCH</u>
					Hour	\$60	Mechanical Analysis Platform
					Hour	\$60	Assembly Materials
					Hour	\$60	Reliability Platform
					Hour	\$60	Lithography Platform
					Hour	\$75	Interconnect Test Platform
					Hour	\$75	Coating Platform
					Hour	\$100	Flip Chip Platform
					Hour	\$144	Plating Platform
					Hour	\$144	Functional Test Platform
					Hour	\$144	Laser Platform
					15.	Mass Spectrometry Lab	Chemistry
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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16.	Mass Spectrometry Lab	Biology	7/21/10	10/14/13			<u>INTERNAL (Biology &amp; Other Georgia Tech)</u>
					Sample	\$130	Compound Specific
					Sample	\$5	Nutrient concentration measurement
					Sample	\$10	Gas Chromatography
					Sample	\$10	Solid Organic
					Sample	\$30	Disolved Nutrient
							<u>EDUCATIONAL INSTITUTIONS RATE</u>
					Sample	\$130	Compound Specific
					Sample	\$5	Nutrient concentration measurement
					Sample	\$10	Gas Chromatography
					Sample	\$10	Solid Organic
					Sample	\$30	Dissolved Nutrient
							<u>OTHER</u>
					Hour	\$100	Consulting Services
					Cost	Cost	Travel
17.	Physiological Research Lab (Vivarium)	IBB	8/6/10	9/30/16	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 &amp; 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>
18.	Histology Lab	IBB	6/26/14	9/28/16			<u>GT Internal</u>
					Hour	\$16	Personal Services
							<b>Processing:</b>
					Sample	\$3.00	Parraffin (Routine)
					Sample	\$5.00	Parraffin (Special)
					Sample	\$5.00	Resin (Epoxy)

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					Sample	\$10.00	Resin (GMA)	
					Sample	\$12.00	Resin (MMA)	
							<b>Embedding:</b>	
					Sample	\$5.00	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)	
							<b>Sectioning:</b>	
					Slide	\$2.00	Frozen	
					Slide	\$0.50	Paraffin	
					Slide	\$2.00	Microtome	
					Cut	\$5.00	Isomet	
					Slide	\$10.00	Exakt Grinding	
							<b>Staining:</b>	
					Slide	\$2.00	H&E	
					Slide	\$5.00	Special	
					Slide	\$8.00	IHC	
							<b>Other</b>	
					Sample	\$5.00	Decalcification	
					Slide	\$5.00	Antigen Retrieval	
					Slide	\$1.00	Coverslipping	
						COST	Supplies - Pass Through	
							<u>Other Academic &amp; Industry Partner</u>	
					Hour	\$24.00	Personal Services	
							<b>Processing:</b>	
					Sample	\$6.00	Parraffin (Routine)	
					Sample	\$6.00	Parraffin (Special)	
					Sample	\$10.00	Resin (Epoxy)	
					Sample	\$15.00	Resin (GMA)	
					Sample	\$20.00	Resin (MMA)	
							<b>Embedding:</b>	
					Sample	\$6.00	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)	
							<b>Sectioning:</b>	
					Slide	\$4.00	Frozen	
					Slide	\$0.75	Paraffin	
					Slide	\$5.00	Microtome	
					Cut	\$10.00	Isomet	



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			Date	Date				
					Slide	\$12.00	Exakt Grinding	
							<b>Staining:</b>	
					Slide	\$5.00	H&E	
					Slide	\$20.00	Special	
					Slide	\$30.00	IHC	
							<b>Other</b>	
					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	
							<b>Processing:</b>	
					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)	
							<b>Embedding:</b>	
					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)	
							<b>Sectioning:</b>	
					Slide	\$8.00	Frozen	
					Slide	\$1.00	Paraffin	
					Slide	\$13.00	Microtome	
					Cut	\$13.00	Isomet	
					Slide	\$13.00	Exakt Grinding	
							<b>Staining:</b>	
					Slide	\$32.00	H&E	
					Slide	\$42.00	Special	
					Slide	\$47.00	IHC	
							<b>Other</b>	
					Sample	\$19.00	Decalcification	
					Slide	\$14.00	Antigen Retrieval	
					Slide	\$1.00	Coverslipping	
						COST	Supplies - Pass Through	

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19.	Micro-Computed Tomography Facility	IBB/ME	11/10/15	9/26/16	<u>GEORGIA TECH &amp; EXTERNAL INSTITUTES</u>		
					Set Up	\$3.92	Set Up Charge
					Slice	\$0.07	Medium Resolution
					Slice	\$0.17	High Resolution
					Slice	\$0.34	Custom Resolution
					Hour	\$45.33	Additional Analysis
					<u>IBB INDUSTRY PARTNERS</u>		
					Set Up	\$5.23	Set Up Charge
					Slice	\$0.09	Medium Resolution
					Slice	\$0.22	High Resolution
					Slice	\$0.45	Custom Resolution
					Hour	\$45.33	Additional Analysis
					<u>INDUSTRY</u>		
					Set Up	\$6.54	Set Up Charge
					Slice	\$0.11	Medium Resolution
					Slice	\$0.28	High Resolution
Slice	\$0.56	Custom Resolution					
Hour	\$45.33	Additional Analysis					
20.	Georgia Industrial Fellowships for Teachers	CEISMC	4/11/16	11/1/16	<u>On Campus Rate</u>		
					Participant	\$1,500	Administrative Charge
					<u>Off Campus Rate</u>		
					Participant	\$2,250	Administrative Charge

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21.	Testing Services	IPST	5/22/13	9/13/16			<u>INTERNAL, ACADEMIC, INDUSTRY MEMBERS</u>
					Hour	\$97	Senior Scientist
					Hour	\$65	Analyst
					Hour	\$36	Instrument Services
							<u>INDUSTRIAL - NON-MEMBER</u>
					Hour	\$149	Senior Scientist
					Hour	\$99	Analyst
					Hour	\$150	<u>Consulting Services</u>
22.	Technical Services Organization	CoC	11/6/15	9/30/16	EFT per year	\$6,123	Computing & Networking Services
23.	Interactive Media Technology Center	IMTC	3/16/17	10/14/15			<u>Internal Departments:</u>
					Hour	\$84	Consulting
							<u>Other Educational Institutions:</u>
					Hour	\$84	Consulting
							<u>Corporate:</u>
					Hour	\$84	Consulting
24.	Professional Education	GTPE	6/23/16	9/19/16			<u>GTPE Administrative Charge - Sponsored PE Contracts:</u>
					Federal	Other	
					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	10/3/16	Hour	\$100	<u>US Academic Institutions</u>
					Hour	\$110	Staff Time
							EBL Machine Time
							<u>Foreign Academic Institutions</u>
					Hour	\$100	Staff Time
					Hour	\$300	EBL Machine Time
							<u>SBIR Small Business</u>
					Hour	\$100	Staff Time
					Hour	\$200	EBL Machine Time
							<u>Industrial</u>
		Hour	\$100	Staff Time			
		Hour	\$300	EBL Machine Time			
26.	3-D Printer	COD	9/26/13	9/20/16	Cubic Inch	\$5.75	<u>GT Students Enrolled in COA Studio</u>
					Cubic Inch	\$6.50	Dimension FDM Printing
					Cubic Inch	\$7.50	Fortus 360 - .010
							Fortus 360 - .005
							<u>Other Users</u>
					Cubic Inch	\$11.50	Dimension FDM Printing
					Cubic Inch	\$13.00	Fortus 360 - .010
Cubic Inch	\$15.00	Fortus 360 - .005					
27.	Telecom	OIT	1/9/13	9/29/16	Line, annual	\$254.40	<u>Internal</u>
					Line, annual	\$178.68	Analog Line
					Line, annual	\$322.80	Emergency Phones
					Line, annual	\$322.80	VOIP
					Line, annual	\$60.65	Digital Line
					Line, annual	\$36.25	MADN's
					Line, annual	\$99.02	Audio Conferencing Ports
					Line, annual	\$823.57	Softphones
					Line, annual	\$0.04	ACD Agents
					Line, annual	\$18.87	Toll Free Long Distance
					Line, annual	\$44.82	Long Distance
					Line, annual	\$16.98	Moves, Adds, and Deletes
					Line, annual	\$26.99	Feature Changes
					Line, annual	\$26.99	Service Changes
Cost plus	5%	Purchased Telephone Services					
Line, annual	\$80.72	Standalone Voice mailbox					

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28.	Neuro Lab	BME	11/28/15	9/16/16	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
					Hour	\$9.03	<u>External</u>	Instrument Services
29.	Microanalysis Center	MSE	3/28/14	9/30/16	Hour	\$30	<u>Internal</u>	Personal Services
					Hour	\$30		Instrument Services
					Hour	\$36	<u>Industrial</u>	Personal Services
					Hour	\$45		Instrument Services
30.	NMRI-MR Imaging Facility	BME	3/19/13	9/16/16	Hour	\$70	<u>Internal</u>	Personal Services - (1 hour minimum)
					Hour	\$110		Instrument Services - (1 hour minimum)
					Hour	\$70	<u>External (Industry)</u>	Personal Services - (1 hour minimum)
					Hour	\$249		Instrument Services - (1 hour minimum)
31.	Center of Nanostructured Materials for Energy Storage	MSE	7/1/14	9/30/16	Hour	\$50	<u>Internal</u>	Personal Services
					Procedure	\$95		Component Testing Services
					Procedure	\$125		Material Testing Services
					Hour	\$100	<u>External</u>	Personal Services
					Procedure	\$129		Component Testing Services
					Procedure	\$200		Material Testing Services
32.	Center for Advanced Brain Imaging	CoS	3/10/16	10/13/16	Hour	\$42	<u>Internal</u>	Weekend / Evening
					Hour	\$90		Consulting Services
					Hour	\$82		Facility Use
					Hour	\$425		Instrument Services
					Hour	\$42	<u>External/Industry</u>	Weekend / Evening
					Hour	\$90		Consulting Services
					Hour	\$82		Facility Use
					Hour	\$525		Instrument Services

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No.	Name of Rate Study	Department	Rate	Annual	Rates		
			Study	Validation	Basis	Amount	Service
			Date	Date			
33.	Robotics Machine Shop	COC	8/16/11	9/20/16	Hour	\$54.49	Personal Services
					Hour	\$13.47	Instrument Services
34.	Confocal Microscopy	IBB	12/15/16	9/26/16			<u>Georgia Tech</u>
					Hour	\$16.00	Instrument Services
					Hour	\$0	Personal Services
							<u>Affiliates and Industry Partners</u>
					Hour	\$22.00	Instrument Services
					Hour	\$0	Personal Services
							<u>Industry</u>
					Hour	\$104	Instrument Services
		Hour	\$178	Personal Services			
35.	Vacuum Test Facility	AE	2/24/16	9/28/16	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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No.	Name of Rate Study	Department	Rate	Annual	Rates			Service
			Study	Validation	Basis	Amount		
			Date	Date				
36.	GEDC High Frequency Lab	ECE	1/25/12	9/23/16			<u>Internal (GEDC )</u>	
					Hour	\$57.85	Personal Services	
					Unit	\$27.47	Test Bed I: Millimeter-Wave	
					Unit	\$3.88	Test Bed II: 50GHz s-para/NF	
					Unit	\$3.19	Test Bed III: Wire Bonder	
					Unit	\$4.05	Test Bed IV: Optical Signal	
							<u>Internal (Other GA Tech )</u>	
					Hour	\$57.85	Personal Services	
					Unit	\$54.95	Test Bed I: Millimeter-Wave	
					Unit	\$7.77	Test Bed II: 50GHz s-para/NF	
					Unit	\$6.37	Test Bed III: Wire Bonder	
					Unit	\$8.10	Test Bed IV: Optical Signal	
							<u>External (GEDC Industry Members)</u>	
					Hour	\$57.85	Personal Services	
					Unit	\$54.95	Test Bed I: Millimeter-Wave	
					Unit	\$7.77	Test Bed II: 50GHz s-para/NF	
					Unit	\$6.37	Test Bed III: Wire Bonder	
					Unit	\$8.10	Test Bed IV: Optical Signal	
							<u>External (Other Industry)</u>	
					Hour	\$57.85	Personal Services	
Unit	\$109.89	Test Bed I: Millimeter-Wave						
Unit	\$15.53	Test Bed II: 50GHz s-para/NF						
Unit	\$12.75	Test Bed III: Wire Bonder						
Unit	\$16.19	Test Bed IV: Optical Signal						
37.	Stem Cell Engineering Center	BME	5/9/13	10/14/13			<u>McDevitt Lab</u>	
					Sample	\$0	Nova BioProfile FLEX	
					Hour	\$0	Accuri Cytometer	
							<u>Academic</u>	
					Sample	\$5	Nova BioProfile FLEX	
					Hour	\$6	Accuri Cytometer	
							<u>Industry</u>	
					Sample	\$25	Nova BioProfile FLEX	
Hour	\$17	Accuri Cytometer						

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No.	Name of Rate Study	Department	Rate	Annual	Rates			Service
			Study	Validation	Basis	Amount		
			Date	Date				
38.	Genome Analysis	IBB	12/15/15	9/26/16				<u>Internal (Georgia Tech )</u>
					Hour	\$46		Personal Services
					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	\$26		Nano Bioanalyzer
					Unit	\$27		Pico Bioanalyzer
					Unit	\$5		High Capacity cDNA
					Unit	\$9		SuperScript CDNA
					Unit	\$2		Nano Drop
					Unit	\$129		ddPCR
					Unit	\$0		Nucleofector
								<u>Affiliates and Industry Partners</u>
					Hour	\$46		Personal Services
					Unit	\$1,469		96.96 Gene Expression
					Unit	\$1,015		96.96 Genotyping
					Unit	\$70		96.96 Pre-Amp
					Unit	\$732		48.48 Gene Expression
					Unit	\$659		48.48 Genotyping
					Unit	\$70		48.48 Pre-Amp
					Unit	\$736		48.48 Taqman Gene Expression
					Unit	\$925		12 X 12 Chip
					Unit	\$37		Nano Bioanalyzer
					Unit	\$38		Pico Bioanalyzer
					Unit	\$5		High Capacity cDNA
					Unit	\$10		SuperScript CDNA
					Unit	\$3		Nano Drop
					Unit	\$181		ddPCR
					Unit	\$259		Nucleofector



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			Study	Validation	Basis	Amount		
			Date	Date				
								<u>External (Industry)</u>
					Hour	\$46		Personal Services
					Unit	\$1,729		96.96 Gene Expression
					Unit	\$1,194		96.96 Genotyping
					Unit	\$82		96.96 Pre-Amp
					Unit	\$862		48.48 Gene Expression
					Unit	\$775		48.48 Genotyping
					Unit	\$82		48.48 Pre-Amp
					Unit	\$866		48.48 Taqman Gene Expression
					Unit	\$1,089		12 X 12 Chip
					Unit	\$106		Nano Bioanalyzer
					Unit	\$109		Pico Bioanalyzer
					Unit	\$5		High Capacity cDNA
					Unit	\$11		SuperScript CDNA
					Unit	\$9		Nano Drop
					Unit	\$516		ddPCR
					Unit	\$741		Nucleofector
39.	Signal Processing and Mobile Networks Lab	ECE	3/29/12	11/3/15				<u>ECE Users</u>
					Hour	\$0		Signal Processing
								<u>Other Users</u>
					Hour	\$ 11.46		Signal Processing
40.	Digital Fabrication Lab	COD	6/5/13	9/27/16				<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

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			Study	Validation	Basis	Amount		
			Date	Date				
41.	Cryo-EM Center	Biology	8/16/12	10/21/15	Session	\$200	<u>Georgia Tech</u>	
					Session	\$400	TEM Training	
					Hour	\$25	Cryo-EM Training	
					Hour	\$45	TEM	
							Cryo-EM	
							<u>External Users</u>	
					Session	\$200	TEM Training	
					Session	\$400	Cryo-EM Training	
					Hour	\$40	TEM	
					Hour	\$65	Cryo-EM	
							<u>Industrial</u>	
					Session	\$775	TEM Training	
					Session	\$2,026	Cryo-EM Training	
					Hour	\$70	TEM	
Hour	\$108	Cryo-EM						
42.	Center for Polymer & Fiber Processing	MSE	9/21/12	9/30/16	Hour	\$120	Machine Services	
43.	Invention Studio Center	ME	1/3/13	10/20/16	Cubic Inch	\$28	Uprint 3D Printer	
					Cubic Inch	\$17	Dimension 3D Printer	
					Cubic Inch	\$27	Eden 3D Printer	
44.	Advanced Semiconductor Development Center	ECE	3/22/13	11/3/15	Hour	\$78	Machine Services	
45.	Alternative Media Access Center	CoA	7/17/13	9/30/16	Hour	\$450	Consultation	
46.	Biomechanics Center	IBB	11/1/13	9/26/16			<u>GT Investigators</u>	
					Hour	\$53	Personal Services	
					Hour	\$16	Machine Services	
							<u>Other Academic &amp; Industry Partners</u>	
					Hour	\$53	Personal Services	
					Hour	\$24	Machine Services	
							<u>Other Industry</u>	
Hour	\$53	Personal Services						
Hour	\$32	Machine Services						

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			Study	Validation	Basis	Amount	Service
			Date	Date			
47.	High Performace Computing (HPC)	OIT	12/11/15	9/15/15			<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	10/5/16			<u>Educational Institutions</u>
					Hour	\$35	SEM
					Hour	\$45	SEM + EBSD
							<u>Industrial</u>
					Hour	\$42	SEM
					Hour	\$62	SEM + EBSD
49.	Carbon Fiber Research Center	MSE	3/18/14	9/30/16			
					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 Furnance Equipment

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			Study	Validation	Basis	Amount	Service
			Date	Date			
50.	Machine Shop	AE	5/12/14	9/29/16			<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	1/30/17			<u>GT &amp; 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	Annual	Rates			Service
			Study	Validation	Basis	Amount		
			Date	Date				
52.	Cellular Analysis Core	IBB	12/15/16	9/28/16				
					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 &amp; 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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No.	Name of Rate Study	Department	Rate	Annual	Rates			Service
			Study	Validation	Basis	Amount		
			Date	Date				
53.	Poster Printer	BME	11/18/14	9/16/16				<u>Internal</u>
					Gram	\$0.70		Printer Toner
					Linear Ft.	\$2.47		24lb Bond 36" Paper
					Linear Ft.	\$2.50		24lb Bond 42" Paper
					Linear Ft.	\$4.04		Tyvek 36" Paper
					Linear Ft.	\$4.33		Tyvek 42" Paper
					Linear Ft.	\$3.78		24lb Adhesive Bond 36" Paper
					Linear Ft.	\$3.87		Photo 36" Paper
					Linear Ft.	\$4.08		Photo 42" Paper
								<u>Same Day Service</u>
					Gram	\$0.88		Printer Toner
					Linear Ft.	\$3.09		24lb Bond 36" Paper
					Linear Ft.	\$3.12		24lb Bond 42" Paper
					Linear Ft.	\$5.05		Tyvek 36" Paper
					Linear Ft.	\$5.41		Tyvek 42" Paper
					Linear Ft.	\$4.73		24lb Adhesive Bond 36" Paper
					Linear Ft.	\$4.84		Photo 36" Paper
					Linear Ft.	\$5.10		Photo 42" Paper
54.	XRD Center	MSE	2/23/15	9/30/16				<u>Educational Institutions</u>
								Tier Structure where total rates decline per group for each machine as usage increases
								<b>Tier 1 (1st 0-150 Hours / Machine)</b>
					Hour	\$34.00		Personal Services
					Hour	\$17.00		X-Ray Services
								<b>Tier 2 (1st 151-300 Hours / Machine)</b>
					Hour	\$17.00		Personal Services
					Hour	\$8.50		X-Ray Services
								<b>Tier 3 (1st 301-450 Hours / Machine)</b>
					Hour	\$8.50		Personal Services
					Hour	\$4.25		X-Ray Services
								<b>Tier 4 (1st 451+ Hours / Machine)</b>
					Hour	\$3.40		Personal Services
					Hour	\$1.70		X-Ray Services
		MSE	2/23/15	9/18/15	Hour	\$53.00		<u>Industrial</u> Personal Services
					Hour	\$41.00		X-Ray Services

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			Study	Validation	Basis	Amount		
			Date	Date				
55.	Neuro Design Suite	IBB	5/11/15	11/20/17	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
56.	Materials Analysis Center	IEN	6/4/15	10/5/16	Hour	\$118.00	<u>Educational Institutions</u>	Testing Services
					Hour	\$34.00		Equipment Use
					Hour	\$118.00	<u>Industrial</u>	Testing Services
					Hour	\$34.00		Equipment Use
57.	Precision Services Lab	ME	9/28/15	10/5/16	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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			Study	Validation	Basis	Amount		
			Date	Date				
58.	High Throughput DNA Sequencing Core	IBB	3/17/15	10/5/16				
								<u>Educational Institutions</u>
					Hour	\$86		Personal Services
					Module	\$1,245		Rapid Run w/out Reagents
					Module	\$4,465		Rapid Run 2*100 BP
					Module	\$2,013		Rapid Run 1*50 BP
					Module	\$6,741		Rapid Run 2*150 BP
					Module	\$7,992		Rapid Run 2*250 BP
					Lane	\$1,765		High Output
					Sample	\$74		TruSeq DNA
					Sample	\$103		Nextera DNA
					Sample	\$65		Nextera XT
					Sample	\$100		TruSeq RNA
					Sample	\$131		Nextera Rapid Capture
					Kit	\$465		Separate Samples Kit
					Sample	\$10		Nextera Library Quantification
					Sample	\$27		TruSeq Library Quantification
								<u>Industrial</u>
					Hour	\$86		Personal Services
					Module	\$1,346		Rapid Run w/out Reagents
					Module	\$4,566		Rapid Run 2*100 BP
					Module	\$2,063		Rapid Run 1*50 BP
					Module	\$6,942		Rapid Run 2*150 BP
					Module	\$8,243		Rapid Run 2*250 BP
					Lane	\$3,601		High Output
					Sample	\$74		TruSeq DNA
					Sample	\$103		Nextera DNA
					Sample	\$65		Nextera XT
					Sample	\$100		TruSeq RNA
					Sample	\$131		Nextera Rapid Capture
					Kit	\$465		Separate Samples Kit
					Sample	\$10		Nextera Library Quantification
					Sample	\$27		TruSeq Library Quantification



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			Study	Validation	Basis	Amount	Service
			Date	Date			
59.	Heat Lab	ME	3/1/16		Hour	\$19	<u>Internal / Educational Institutions:</u>
					Hour	\$9	High Cost Equipment Usage
					Hour	\$23	Low Cost Equipment Usage
							Measurement Service
							<u>External / Industrial:</u>
					Hour	\$19	High Cost Equipment Usage
					Hour	\$9	Low Cost Equipment Usage
					Hour	\$23	Measurement Service
					60.	Acoustics Water Tank Lab	ME
		Underwater Acoustic Measurements					
Hour	\$70	<u>External / Other Educations Institutions:</u>					
		Underwater Acoustic Measurements					
61.	Mechanical Properties Characterization Facility	IMaT	6/1/16		Hour	\$50	<u>External /Corporate:</u>
					Day	\$35	Underwater Acoustic Measurements
					Week	\$150	Underwater Acoustic Measurements
					Day	\$10	Underwater Acoustic Measurements
					Week	\$45	Underwater Acoustic Measurements
					Hour	\$5	<u>Internal / Other Georgia Tech Departments:</u>
							Personal Services
							Test System Base Daily
							Test System Base Weekly
							Ovens & Furnaces Daily
							Ovens & Furnaces Weekly
		Metallography Prep Facility Hourly					
		<u>External /Industry:</u>					
		Personal Services					
		Test System Base Daily					
		Test System Base Weekly					
		Ovens & Furnaces Daily					
		Ovens & Furnaces Weekly					
		Metallography Prep Facility Hourly					

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			Study	Validation	Basis	Amount	Service
			Date	Date			
62.	Center for X-Ray Diffraction Structure Analysis	Chem	9/20/16		Per Analysis	\$300	Full Service Structure Analysis
					Per Hour	\$75	Personnel Assistance
					Per Hour	\$25	Instrument Services
63.	Systems Mass Spectrometry Center	IBB	11/9/16				<u>GT &amp; 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

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			Study	Validation	Basis	Amount	Service
			Date	Date			
64.	Radiological Science & Engineering Lab	ME	7/17/12	10/5/16			<u>Faculty Usage</u>
					Hour	\$144	Varian
					Hour	\$35	Facility Usage Fee
					Hour	\$80	Training Lab
							<u>Industry</u>
					Hour	\$500	Varian
					Hour	\$65	Facility Usage Fee
		Hour	\$128	Training Lab			
65.	GVU Prototyping Lab	SoIC	3/1/17			<u>Educational Institutions</u>	
				Hour	\$14	3D Printing-Personal Services	
				Cubic Inch	\$3.75	Dimension ABS Printer Build	
				Cubic Inch	\$7.50	Dimension ABS Printer Support	
				Grams	\$0.40	3D Systems Project Build	
				Grams	\$0.30	3D Systems Project Support	
						<u>Industrial</u>	
				Hour	\$16.03	3D Printing-Personal Services	
				Cubic Inch	\$4.67	Dimension ABS Printer Build	
				Cubic Inch	\$8.48	Dimension ABS Printer Support	
		Grams	\$0.79	3D Systems Project Build			
		Grams	\$0.63	3D Systems Project Support			

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

**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.

1.	Multiphoton Lithography	Chemistry	2/14/07		Day	\$107	<u>CORPORATE:</u> Facility Use
2.	MARC - KUKA	MARC	3/6/08		Month	\$1,364	<u>CORPORATE:</u> Facility Use
3.	Combustion Actuator Test Facility	ME	5/10/05		1/2 Day	\$8	<u>OTHER ACADEMIC / CORPORATE:</u> Facility Use
4.	Optical Imaging & Sensing Lab	ECE	10/8/08		Hour	\$15	<u>CORPORATE:</u> Facility Use
5.	MARC - Clean Room	MARC	6/14/10		Year	\$1,205	<u>CORPORATE:</u> Facility Use
6.	Micromachined Sensors & Transducers Lab	ECE	5/21/08		Hour	\$9	<u>CORPORATE:</u> Facility Use
7.	Nano Furnace	ME	2/17/13		Hour	\$20	<u>CORPORATE:</u> Facility Use
8.	MOF Synthesis Lab Facility	CHBE	4/5/13		Hour	\$36	<u>CORPORATE:</u> Personal Services
			4/5/13		Sample	\$50	MOF Synthesis
			4/5/13		Hour	\$8	Additional Analysis

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No.	Name of Rate Study	Department	Rate	Annual	Rates			Service
			Study	Validation	Basis	Amount		
			Date	Date				
9.	Thermal Analysis	MSE	7/16/13		Hour	\$62	<u>CORPORATE:</u>	Academic Professional
					Hour	\$44		GRA
					Hour	\$15		Machine Services
10.	Polymer Processing & Properties Laboratory	MSE	7/18/13		Hour	\$44	<u>CORPORATE:</u>	Personal Services
					Hour	\$37		Processing Services
					Hour	\$40		Testing Services
					Chip	\$50		Consumables
11.	Raman & Photoluminescence Facility	ME	2/17/14		Hour	\$111	<u>CORPORATE:</u>	Machine Services
12.	Bionics Lab	ECE	10/19/15		Monthly	\$153	<u>CORPORATE:</u>	Lab Space
13.	Stable Isotope Facility	EAS	8/25/14		Hour	\$18	<u>Other Academic</u>	Machine Service
						\$37	<u>Corporate</u>	Machine Service
14.	Microbial Solutions Lab	CHBE	6/30/14		Liters	\$90	<u>OTHER ACADEMIC / CORPORATE:</u>	Liquid Cultivations
15.	Center for the Study of Systems Biology	Biology	10/26/15		Computation	\$1,000	<u>CORPORATE:</u>	Computational Services
16.	Robotic Musicianship	Music	2/26/16		Hour	\$109	<u>EXTERNAL:</u>	Robot Usage
					Hour	\$54		Legal Admin Fee