

Georgia Institute of Technology
Grants and Contracts Accounting
Service/Recharge Center Rate Studies
11/7/2018

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

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

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| | | | | | Basis | Amount | |
| 6. | NMR Center | Chemistry | 8/1/18 | 10/1/18 | Hour | \$40 | <u>Educational Institutions</u> |
| | | | | | | | Personal Services, Other |
| | | | | | | | Tier A (4) |
| | | | | | | | Premium Rate (8AM-6PM) (3) |
| | | | | | | | Non-premium time |
| | | | | | | | Tier B (5) |
| | | | | | | | Premium Rate (8AM-6PM) (3) |
| | | | | | | | Non-premium time |
| | | | | | | | Tier C (6) |
| | | | | | | | Premium Rate (8AM-6PM) (3) |
| | | | | | | | Non-premium time |
| | | | | | | | <u>External</u> |
| | | | | | | | Personal Services, Other |
| | | | | | | | Machine Service, per hour: |
| | Premium Rate (8AM-6PM) (3) | | | | | | |
| | Non-premium time | | | | | | |
| 7. | Materials Characterization Facility | IEN | 12/15/14 | 9/19/18 | Hour | \$100 | <u>Internal / External Academic</u> |
| | | | | | | | Operator/ Consultation |
| | | | | | | | Equipment Group 1 |
| | | | | | | | Hitachi HT7700 TEM |
| | | | | | | | Hitachi SU8230 |
| | | | | | | | Thermo K-Alpha XPS |
| | | | | | | | Zeiss Ultra60 FE-SEM |
| | | | | | | | Equipment Group 2 |
| | | | | | | | FEI Nova Nanolab 200 FIB/SEM |
| | | | | | | | FEI Quanta 200 3D FIB/SEM |
| | | | | | | | IONTOF Time-of-Flight SIMS |
| | | | | | | | Kratos XPS |
| | | | | | | | Equipment Group 3 |
| | | | | | | | Hysitron Tribolndenter |
| | Raman Spectrometer | | | | | | |
| | Veeco AFM | | | | | | |
| | Veeco AFM II Dimension 3100 | | | | | | |
| | Hummer 6 Gold/Palladium Sputter | | | | | | |

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| | | | | | | | Equipment Group 4 |
| | | | | | Hour | \$20 | Pananalytical XRD |
| | | | | | Hour | \$20 | Venus25 Benchtop Plasma System |
| | | | | | Hour | \$20 | ZONESEM Desktop Sample Cleaner |
| | | | | | Hour | \$20 | Shel Lab Vacuum Oven |
| | | | | | Hour | \$20 | VWR Vacuum Oven |
| | | | | | Hour | \$20 | Cressington Carbon Coater |
| | | | | | | | <u>Industrial</u> |
| | | | | | | | Equipment Group 1 |
| | | | | | Hour | \$100 | Hitachi HT7700 TEM |
| | | | | | Hour | \$100 | Hitachi SU8230 |
| | | | | | Hour | \$70 | Thermo K-Alpha XPS |
| | | | | | Hour | \$100 | Zeiss Ultra60 FE-SEM |
| | | | | | | | Equipment Group 2 |
| | | | | | Hour | \$135 | FEI Nova Nanolab 200 FIB/SEM |
| | | | | | Hour | \$135 | FEI Quanta 200 3D FIB/SEM |
| | | | | | Hour | \$150 | IONTOF Time-of-Flight SIMS |
| | | | | | Hour | \$70 | Kratos XPS |
| | | | | | | | Equipment Group 3 |
| | | | | | Hour | \$50 | Hysitron Tribolindenter |
| | | | | | 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 | Pananalytical 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 | |
| 8. | IEN Micro & Nano Fabrication Center (formerly CMOS) | IEN | 1/7/15 | 9/19/18 | Hour | \$100 | <u>Academic & Industrial Rates</u> Operator / Consultation |
| 9. | Cleanroom Access | IEN | 9/15/14 | 9/19/18 | Month | \$200 | <u>EDUCATIONAL INSTITUTION RATES</u> Facility Entry Fee, (Inorganic Cleanroom) |
| | | | | | Month | \$0 | Facility Entry Fee, (Organic Cleanroom) |
| | | | | | Hour | \$20 | Cleanroom Supply Use Charge |
| | | | | | Month | \$550 | <u>INDUSTRIAL RATES</u> Facility Entry Fee, (Inorganic Cleanroom) |
| | | | | | Month | \$0 | Facility Entry Fee, (Organic Cleanroom) |
| | | | | | Hour | \$20 | Cleanroom Supply Use Charge |
| | | | | | Month | \$3,000 | <u>Special Projects Usage</u> Defined Limited Access, per month |
| 10. | Printing and Copying Center | OIT | 6/1/16 | 9/11/18 | Hour | \$83 | Desktop Services |
| | | | | | Hour | \$18 | PrePress Services |
| | | | | | Hour | \$49 | Ryobi Services |
| | | | | | Hour | \$48 | Heidelberg Windmill Services |
| | | | | | Copy | \$0.024 | Quick Copy Services, plus paper |
| | | | | | Copy | \$0.19 | Color Copier, plus paper |
| | | | | | Hour | \$30 | Bindery Hand Labor Services |
| | | | | | Hour | \$47 | Cutter Services |
| | | | | | Hour | \$55 | Bourg Services |
| | | | | | Hour | \$65 | Folder Services |
| | | | | | Cost plus | 0% | Postage Services |
| | | | | | Hour | \$62 | Inkjet Mailer |
| | | | | | Hour | \$54 | Envelope Inserter |
| | | | | | Hour | \$60 | Small Bind Services |
| | | | | | Copy | \$0.04 | Student Printing |
| | | | | | Copy | \$0.19 | Student Color Printing |
| | | | | | Sq. Ft. | \$3.87 | Wide Format Printing |
| | | | | | Cost plus | 16% | Supplies & Third Party |
| 15. | Mass Spectrometry Lab | Chemistry | 5/9/16 | 10/30/18 | Hour | \$12 | <u>INTERNAL (GA Tech)</u> Personal Services |
| | | | | | Hour | \$12 | Instrument Services |
| | | | | | Hour | \$12 | <u>OTHER EDUCATIONAL INSTITUTIONS RATE</u> Personal Services |
| | | | | | Hour | \$12 | Instrument Services |
| | | | | | Hour | \$117 | <u>INDUSTRIAL RATE</u> Personal Services |
| | | | | | Hour | \$41 | Instrument Services |

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| | | | | | Basis | Amount | |
| 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) |
| | | | | | | | <u>ANIMAL HUSBANDRY:</u> |
| | | | | | | | <u>Mice & Rats</u> |
| | | | | | Cage per Day | \$0.60 | Mice-Conventional |
| | | | | | Cage per Day | \$0.90 | Mice-Sterile Caging |
| | | | | | Cage per Day | \$0.90 | Rats-Conventional |
| | | | | | Cage per Day | \$1.20 | Rats-Sterile Caging |
| | | | | | Cage per Day | \$1.20 | Rodent-Special Caging |
| | | | | | | | <u>Other Species</u> |
| | | | | | Animal Day | \$0.80 | Lizard/Geckos |
| | | | | | Animal Day | \$2.79 | Rabbits |
| | | | | | Animal Day | \$2.10 | Guinea Pigs |
| | | | | | Animal Day | \$4.59 | Cats |
| | | | | | Cost plus | 25% | <u>Supplies</u> |

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

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

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| 25. | Electron Beam Laboratory | IEN | 3/21/14 | 9/19/18 | | | <u>US Academic Institutions</u> | | | | | |
| | | | | | Hour | \$100 | Staff Time | | | | | |
| | | | | | Hour | \$60 | EBL Machine Time | | | | | |
| | | | | | | | <u>Foreign Academic Institutions</u> | | | | | |
| | | | | | Hour | \$100 | Staff Time | | | | | |
| | | | | | Hour | \$90 | EBL Machine Time | | | | | |
| | | | | | | | <u>Industrial</u> | | | | | |
| | | | | | Hour | \$100 | Staff Time | | | | | |
| | | 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> | | | | | |
| | | | | | Cubic Inch | \$9.50 | Dimension FDM Printing | | | | | |
| | | | | | ML | \$0.74 | Form 2 - High Res Clear and White | | | | | |
| | | | | | ML | \$1.00 | Form 2 - Rubber | | | | | |
| | | | | | Cubic Inch | \$6.72 | Zcorp - Powder | | | | | |
| | | | | | 27. | Telecom | OIT | 7/1/18 | 9/10/18 | | | <u>Internal</u> |
| | | | | | | | | | | FTE | \$475.00 | Telecom |
| 28. | Neuro Lab | BME | 11/28/15 | 9/10/18 | | | <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 | | | | | |
| | | | | | Hour | \$9.03 | <u>External</u> Instrument Services | | | | | |
| 29. | Microanalysis Center | MSE | 3/28/14 | 9/16/18 | | | <u>Internal</u> | | | | | |
| | | | | | Hour | \$30 | Personal Services | | | | | |
| | | | | | Hour | \$30 | Instrument Services | | | | | |
| | | | | | | | <u>Industrial</u> | | | | | |
| | | | | | Hour | \$45 | Instrument Services | | | | | |

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|-----|-----------------------------------|------------|-----------------|------------------------|-------|---------|---|
| | | | | | Basis | Amount | |
| 30. | NMRI-MR Imaging Facility | BME | 3/19/13 | 9/18/18 | | | <u>Internal</u> |
| | | | | | Hour | \$70 | Personal Services - (1 hour minimum) |
| | | | | | Hour | \$110 | Instrument Services - (1 hour minimum) |
| | | | | | | | <u>External (Industry)</u> |
| | | | | | Hour | \$70 | Personal Services - (1 hour minimum) |
| | | | | | Hour | \$249 | Instrument Services - (1 hour minimum) |
| | | | | | | | <u>Internal</u> |
| | | | | | Hour | \$42 | Weekend / Evening |
| 32. | Center for Advanced Brain Imaging | CoS | 3/10/16 | 9/7/18 | Hour | \$90 | Consulting Services |
| | | | | | Hour | \$82 | Facility Use |
| | | | | | Hour | \$425 | Instrument Services |
| | | | | | | | <u>External/Industry</u> |
| | | | | | Hour | \$42 | Weekend / Evening |
| | | | | | Hour | \$90 | Consulting Services |
| | | | | | Hour | \$82 | Facility Use |
| | | | | | Hour | \$525 | Instrument Services |
| 34. | Optical Microscopy | IBB | 11/7/17 | 9/21/18 | | | <u>Georgia Tech</u> |
| | | | | | Hour | \$22 | Instrument Services |
| | | | | | Hour | \$24 | Personal Services |
| | | | | | | | <u>Affiliates and Industry Partners</u> |
| | | | | | Hour | \$30 | Instrument Services |
| | | | | | Hour | \$32 | Personal Services |
| | | | | | | | <u>Industry</u> |
| | | | | | Hour | \$105 | Instrument Services |
| | | | | | Hour | \$69 | Personal Services |
| | | | | | | | <u>Industry</u> |
| | | | | | Day | \$621 | Main Chamber Set Up |
| | | | | | Day | \$1,605 | Main Chamber Usage |
| 35. | Vacuum Test Facility | AE | 2/24/16 | 9/17/18 | Day | \$621 | Small Chamber Set Up |
| | | | | | Day | \$1,605 | Small Chamber Usage |
| | | | | | | | <u>Industry</u> |
| | | | | | Day | \$621 | Main Chamber Set Up |
| | | | | | Day | \$1,605 | Small Chamber Usage |
| | | | | | | | <u>Industry</u> |
| | | | | | Day | \$621 | Main Chamber Set Up |
| | | | | | Day | \$1,605 | Main Chamber Usage |

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| No. | Name of Rate Study | Department | Rate Study Date | Annual Validation Date | Rates | | Service |
|-----|--------------------|------------|-----------------|------------------------|----------------------|---------|---|
| | | | | | Basis | Amount | |
| 38. | Genome Analysis | IBB | 7/1/17 | 9/21/18 | | | |
| | | | | | | | <u>GT Users</u> |
| | | | | | Hour | \$46 | 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 | \$26 | Nano Bioanalyzer |
| | | | | | unit | \$27 | Pico Bioanalyzer |
| | | | | | unit | \$5 | High Capacity cDNA |
| | | | | | unit | \$9 | Super Script cDNA |
| | | | | | unit | \$2 | Nano Drop |
| | | | | | Per Chip (8 samples) | \$40 | ddPCR |
| | | | | | Per Chip (8 samples) | \$16 | ddPCR w/o reagents |
| | | | | | unit | \$0 | Nucleofector |
| | | | | | Per Cartidrg | \$200 | BioRad ddSEQ |
| | | | | | unit | \$5 | Step One PLus 96 well RT PCR S |
| | | | | | Per Sample | \$50 | Library |
| | | | | | | | <u>Affiliates and Industry Partners</u> |
| | | | | | Hour | \$46 | Personal Services, per hours |
| | | | | | 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 | Super Script cDNA |
| | | | | | unit | \$3 | Nano Drop |
| | | | | | Per Chip (8 samples) | \$40 | ddPCR |
| | | | | | Per Chip (8 samples) | \$16 | ddPCR w/o reagents |
| | | | | | unit | \$259 | Nucleofector |
| | | | | | Per Cartidrg | \$400 | BioRad ddSEQ |
| | | | | | unit | \$7 | Step One PLus 96 well RT PCR S |
| | | | | | Per Sample | \$75 | Library |

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| | | | | | | | <u>External (Industry)</u> |
| | | | | | Hour | \$46 | Personal Services, per hours |
| | | | | | unit | \$1,721 | 96.96 Gene Expression |
| | | | | | unit | \$1,190 | 96.96 Genotyping |
| | | | | | unit | \$82 | 96.96 Pre-Amp |
| | | | | | unit | \$858 | 48.48 Gene Expression |
| | | | | | unit | \$772 | 48.48 Genotyping |
| | | | | | unit | \$82 | 48.48 Pre-Amp |
| | | | | | unit | \$863 | 48.48 Taqman Gene Expression |
| | | | | | unit | \$1,084 | 12 X 12 Chip |
| | | | | | unit | \$105 | Nano Bioanalyzer |
| | | | | | unit | \$108 | Pico Bioanalyzer |
| | | | | | unit | \$5 | High Capacity cDNA |
| | | | | | unit | \$11 | Super Script cDNA |
| | | | | | unit | \$9 | Nano Drop |
| | | | | | Per Chip (8 samples) | \$40 | ddPCR |
| | | | | | Per Chip (8 samples) | \$20 | ddPCR w/o reagents |
| | | | | | unit | \$704 | Nucleofector |
| | | | | | Per Cartidge | \$1,020 | BioRad ddSEQ |
| | | | | | unit | \$8 | Step One PLus 96 well RT PCR S |
| | | | | | Per Sample | \$581 | Library |

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|------------|--------------------------------------|--------------------------|-----------------|------------------------|----------|-------------------------|---------------------------------|
| | | | | | Basis | Amount | |
| 40. | Digital Fabrication Lab | COD | 6/5/13 | 9/17/18 | | | <u>DFL Lab</u> |
| | | | | | Hour | \$0 | Personal Services |
| | | | | | Hour | \$0 | Machine Services |
| | | | | | Hour | \$45 | DFL Waterjet |
| | | | | | | | <u>Internal (Georgia Tech)</u> |
| | | | | | Hour | \$25 | Personal Services |
| | | | | | Hour | \$30 | Machine Services |
| | | | | | Hour | \$45 | DFL Waterjet |
| | | | | | | | <u>Industry</u> |
| | | | | | Hour | \$25 | Personal Services |
| | | Hour | \$100 | Machine Services | | | |
| | | Hour | \$100 | DFL Waterjet | | | |
| 41. | Cryo-EM Center | Biology | 7/1/18 | 10/23/17 | | | <u>Internal/Federal</u> |
| | | | | | Hour | \$50 | TEM |
| | | | | | Hour | \$70 | Cryo-EM |
| | | | | | | | <u>External Academic</u> |
| | | | | | Hour | \$50 | TEM |
| | | | | | Hour | \$70 | Cryo-EM |
| | | | | | | | <u>Industrial</u> |
| | | | | | Hour | \$344 | TEM |
| | | | | | Hour | \$344 | Cryo-EM |
| | | | | | 43. | Invention Studio Center | ME |
| Cubic Inch | \$30 | Objet Eden | | | | | |
| Cubic Inch | \$20 | F170 | | | | | |
| Cubic Inch | \$25 | EOS Formiga | | | | | |
| | | <u>External/Industry</u> | | | | | |
| Cubic Inch | \$60 | Objet Eden | | | | | |
| Cubic Inch | \$48 | F170 | | | | | |
| Cubic Inch | \$33 | EOS Formiga | | | | | |
| 45. | Alternative Media Access Center | CoA | 7/17/13 | 9/17/18 | Hour | \$450 | Consultation |
| 47. | High Performace Computing (HPC) | OIT | 12/11/15 | 10/10/18 | | | <u>External</u> |
| | | | | | Server | \$1,699 | Infrastructure and Support |
| | | | | | Per TB | \$169 | DDN Project Storage |
| | | | | | CPU Hour | \$0.0715 | 8 Core Node |
| | | | | | CPU Hour | \$0.0477 | 12 Core Node |
| | | | | | CPU Hour | \$0.0358 | 16 Core Node |
| | | | | | CPU Hour | \$0.0236 | 24 Core Node |
| | | | | | CPU Hour | \$0.0119 | 48 Core Node |
| | | | | | CPU Hour | \$0.0089 | 64 Core Node |
| 48. | Mesoscale Materials Characterization | ME | 4/2/14 | 10/31/17 | | | <u>Educational Institutions</u> |
| | | | | | Hour | \$35 | SEM |
| | | | | | Hour | \$45 | SEM + EBSD |
| | | | | | | | <u>Industrial</u> |
| | | | | | Hour | \$42 | SEM |
| | | | | | Hour | \$62 | SEM + EBSD |

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|-----------|------------------------------|--------------------|-----------------|------------------------|-----------|----------|---|
| | | | | | Basis | Amount | |
| 49. | Carbon Fiber Research Center | MSE | 3/18/14 | 9/8/18 | Hour | \$72 | Personal Services |
| | | | | | Day | \$626 | Single Filament Spinning Equipment |
| | | | | | Day | \$2,515 | Multifilament Spinning Equipment |
| | | | | | Week | \$11,256 | Multifilament Stabilization & Carbonization |
| | | | | | Hour | \$68 | Solution Preparation Equipment |
| | | | | | Day | \$794 | Extruder |
| | | | | | Hour | \$55 | Characterization Instruments |
| | | | | | Hour | \$94 | Xray Diffraction System |
| | | | | | Hour | \$626 | Batch Furnance 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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|-----|------------------------|------------|-----------------|------------------------|-------|--------|---|
| | | | | | Basis | Amount | |
| 52. | Cellular Analysis Core | IBB | 12/15/16 | 9/21/18 | | | |
| | | | | | Hour | \$18 | <u>GT Investigators</u> |
| | | | | | Hour | \$10 | Personal Services |
| | | | | | Hour | \$10 | BD FACS ARIA IIIu Analyser |
| | | | | | Hour | \$54 | BD FACS ARIA IIIu Sorter |
| | | | | | Hour | \$10 | BD LSR II or BD Fortessa |
| | | | | | Hour | \$10 | BD Accuri Analyzer |
| | | | | | Hour | \$10 | AMBR Microbioreactor |
| | | | | | Hour | \$10 | Li-COR |
| | | | | | Hour | \$10 | Multisizer |
| | | | | | Hour | \$10 | Amnis Flowsight |
| | | | | | | | <u>Other Academic Investigators & Industry Partners</u> |
| | | | | | Hour | \$36 | Personal Services |
| | | | | | Hour | \$18 | BD FACS ARIA IIIu Analyser |
| | | | | | Hour | \$75 | BD FACS ARIA IIIu Sorter |
| | | | | | Hour | \$18 | BD LSR II or BD Fortessa |
| | | | | | Hour | \$18 | BD Accuri Analyzer |
| | | | | | Hour | \$20 | AMBR Microbioreactor |
| | | | | | Hour | \$15 | Li-COR |
| | | | | | Hour | \$18 | Multisizer |
| | | | | | Hour | \$14 | Amnis Flowsight |
| | | | | | | | <u>Industry</u> |
| | | | | | Hour | \$46 | Personal Services |
| | | | | | Hour | \$130 | BD FACS ARIA IIIu Analyser |
| | | | | | Hour | \$130 | BD FACS ARIA IIIu Sorter |
| | | | | | Hour | \$31 | BD LSR II or BD Fortessa |
| | | | | | Hour | \$20 | BD Accuri Analyzer |
| | | | | | Hour | \$25 | AMBR Microbioreactor |
| | | | | | Hour | \$21 | Li-COR |
| | | | | | Hour | \$27 | Multisizer |
| | | | | | Hour | \$16 | Amnis Flowsight |

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|------|------------------------|-------------------|-----------------|------------------------|-------|-------------------|--|
| | | | | | Basis | Amount | |
| 54. | XRD Center | IMaT | 2/23/15 | 9/18/18 | | | <u>Educational Institutions</u> |
| | | | | | | | Tier Structure where total rates decline per group for each machine as usage increases |
| | | | | | | | 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> | | | | | |
| Hour | \$53.00 | Personal Services | | | | | |
| Hour | \$41.00 | X-Ray Services | | | | | |
| 55. | Neuro Design Suite | IBB | 5/11/15 | 9/21/18 | Hour | \$85.00 | <u>GA Tech</u> |
| | | | | | | | Machine Service |
| | | | | | Hour | \$100.00 | <u>Other Academic</u> |
| | | | | | | | Machine Service |
| | | | | | | <u>Industrial</u> | |
| | | | | | | 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 |

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|-----|---------------------|------------|------------|-----------------|--------|---------|---|
| | | | Study Date | Validation Date | 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 |

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

Georgia Institute of Technology
Grants and Contracts Accounting
Service/Recharge Center Rate Studies
11/7/2018

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

Georgia Institute of Technology
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Service/Recharge Center Rate Studies
11/7/2018

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

Georgia Institute of Technology
Grants and Contracts Accounting
Service/Recharge Center Rate Studies
11/7/2018

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

Georgia Institute of Technology
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Service/Recharge Center Rate Studies
11/7/2018

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

Georgia Institute of Technology
Grants and Contracts Accounting
Service/Recharge Center Rate Studies
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| No. | Name of Rate Study | Department | Rate Study Date | Annual Validation Date | Rates | | Service |
|------|---|------------------------------------|-----------------|----------------------------------|--------------|--------|--|
| | | | | | Basis | Amount | |
| 59. | Heat Lab | ME | 3/1/16 | 10/31/17 | Hour | \$19 | <u>Internal / Educational Institutions</u> |
| | | | | | Hour | \$9 | High Cost Equipment Usage |
| | | | | | Hour | \$23 | Low Cost Equipment Usage |
| | | | | | | | Measurement Service |
| | | | | | Hour | \$19 | External / Industrial: |
| | | | | | Hour | \$9 | High Cost Equipment Usage |
| | | 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> |
| | | Hour | \$88 | Underwater Acoustic Measurements | | | |
| 61. | Mechanical Properties Characterization Facility | IMaT | 6/1/16 | 9/24/18 | Hour | \$50 | <u>Internal / Other Georgia Tech Departments</u> |
| | | | | | Day | \$35 | Personal Services |
| | | | | | Week | \$150 | Test System Base Daily |
| | | | | | Day | \$10 | Test System Base Weekly |
| | | | | | Week | \$45 | Ovens & Furnaces Daily |
| | | | | | Hour | \$5 | Ovens & Furnaces Weekly |
| | | | | | | | Metallography Prep Facility Hourly |
| | | | | | | | <u>External / Industry</u> |
| | | | | | Hour | \$80 | Personal Services |
| | | | | | Day | \$92 | Test System Base Daily |
| | | | | | Week | \$450 | Test System Base Weekly |
| | | | | | Day | \$30 | Ovens & Furnaces Daily |
| Week | \$135 | Ovens & Furnaces Weekly | | | | | |
| Hour | \$15 | Metallography Prep Facility Hourly | | | | | |
| 62. | Center for X-Ray Diffraction Structure Analysis | Chem | 9/20/16 | 10/30/18 | Per Analysis | \$300 | Full Service Structure Analysis |
| | | | | | Per Hour | \$75 | Personnel Assistance |
| | | | | | Per Hour | \$25 | Instrument Services |

Georgia Institute of Technology
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| No. | Name of Rate Study | Department | Rate Study Date | Annual Validation Date | Rates | | Service |
|------------|----------------------------------|-----------------------------------|-----------------|------------------------|------------|--------|---|
| | | | | | Basis | Amount | |
| 63. | Systems Mass Spectrometry Center | IBB | 11/9/16 | 9/21/18 | | | <u>GT & External Educational Institutes</u> |
| | | | | | Per Sample | \$20 | Sample Preparation - Proteomics |
| | | | | | Per Sample | \$80 | LC-MS/MS Analysis - Proteomics |
| | | | | | Per Sample | \$8 | Data Analysis - Proteomics |
| | | | | | Per Sample | \$6 | Sample Preparation - Metabolomics |
| | | | | | Per Sample | \$35 | LC-MS/MS Analysis - Metabolomics |
| | | | | | Per Sample | \$10 | Data Analysis - Metabolomics |
| | | | | | Per Sample | \$30 | Additional Data Processing |
| | | | | | | | <u>GT Industry Partners</u> |
| | | | | | Per Sample | \$40 | Sample Preparation - Proteomics |
| | | | | | Per Sample | \$155 | LC-MS/MS Analysis - Proteomics |
| | | | | | Per Sample | \$20 | Data Analysis - Proteomics |
| | | | | | Per Sample | \$10 | Sample Preparation - Metabolomics |
| | | | | | Per Sample | \$50 | LC-MS/MS Analysis - Metabolomics |
| | | | | | Per Sample | \$14 | Data Analysis - Metabolomics |
| | | | | | Per Sample | \$40 | Additional Data Processing |
| | | | | | | | <u>Industry</u> |
| | | | | | Per Sample | \$104 | Sample Preparation - Proteomics |
| | | | | | Per Sample | \$155 | LC-MS/MS Analysis - Proteomics |
| | | | | | Per Sample | \$45 | Data Analysis - Proteomics |
| Per Sample | \$53 | Sample Preparation - Metabolomics | | | | | |
| Per Sample | \$59 | LC-MS/MS Analysis - Metabolomics | | | | | |
| Per Sample | \$18 | Data Analysis - Metabolomics | | | | | |
| Per Sample | \$101 | Additional Data Processing | | | | | |
| 65. | GVU Prototyping Lab | SoIC | 7/1/18 | 9/7/18 | | | <u>Internal/Federal</u> |
| | | | | | Cubic Inch | \$14 | Dimesnison ABS Printer |
| | | | | | Cubic Inch | \$16 | 3D Systems Project (SD) |
| | | | | | Cubic Inch | \$17 | 3D Systems Project (HD) |
| | | | | | | | <u>External (Industry)</u> |
| | | | | | Cubic Inch | \$33 | Dimesnison ABS Printer |
| | | | | | Cubic Inch | \$44 | 3D Systems Project (SD) |
| Cubic Inch | \$47 | 3D Systems Project (HD) | | | | | |

Georgia Institute of Technology
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| No. | Name of Rate Study | Department | Rate | Annual | Rates | | | Service |
|-----|--|------------|------------|-----------------|-----------------|-------------|----------|--|
| | | | Study Date | Validation Date | Basis | Amount | Internal | |
| 66. | Biomolecular Characterization and Analysis | IBB/EBB | 7/1/17 | 9/21/18 | <u>Location</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 Ultrspec 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 |

Georgia Institute of Technology
Grants and Contracts Accounting
Service/Recharge Center Rate Studies
11/7/2018

| No. | Name of Rate Study | Department | Rate Study Date | Annual Validation Date | Rates | | Service |
|-----|--------------------|------------|-----------------|------------------------|-------------|---------|--|
| | | | | | Basis | Amount | |
| | | | | | | | <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) |

Georgia Institute of Technology
Grants and Contracts Accounting
Service/Recharge Center Rate Studies
11/7/2018

| No. | Name of Rate Study | Department | Rate Study Date | Annual Validation Date | Rates | | Service | | | | | |
|-----|---|------------|-----------------|------------------------|-------|----------|---------------------------------------|--|--|------|---|---------------------------------------|
| | | | | | Basis | Amount | | | | | | |
| 68. | STAMI Polymer and Molecular Characterization Facility | Chem | 7/1/17 | 10/29/18 | | | <u>Internal Trained Users</u> | | | | | |
| | | | | | Hour | \$5.00 | TA Q200 | | | | | |
| | | | | | Hour | \$5.00 | Perkin Elmer Pyris 1 | | | | | |
| | | | | | Hour | \$5.00 | Malvern Viscotek (THF) | | | | | |
| | | | | | Hour | \$7.00 | Tosoh GPC | | | | | |
| | | | | | Hour | \$5.00 | Tosoh GPC (tri-chlorobenzene) | | | | | |
| | | | | | Hour | \$5.00 | Wyatt DynaPro NanoStar DLS | | | | | |
| | | | | | Hour | \$5.00 | Horiba Jobin Yvon Fluorimeter FL-1005 | | | | | |
| | | | | | Hour | \$5.00 | Horiba Jobin Yvon Fluorimeter FL3-21 | | | | | |
| | | | | | Hour | \$5.00 | Shimadzu IR Prestige 21 | | | | | |
| | | | | | Hour | \$5.00 | Cary 5000 | | | | | |
| | | | | | Hour | \$6.00 | Aligent 7890a & 5975C | | | | | |
| | | | | | Hour | \$8.00 | Agilent 6120BMS, 1260 LC | | | | | |
| | | | | | Hour | \$5.00 | Contact Angle Goniometer | | | | | |
| | | | | | | | | | | | <u>Internal Sample Run & Training</u> | |
| | | | | | | | | | | Hour | \$29.30 | TA Q200 |
| | | | | | | | | | | Hour | \$40.00 | Perkin Elmer Pyris 1 |
| | | | | | | | | | | Hour | \$40.00 | Malvern Viscotek (THF) |
| | | | | | | | | | | Hour | \$50.00 | Tosoh GPC |
| | | | | | | | | | | Hour | \$40.00 | Tosoh GPC (tri-chlorobenzene) |
| | | | | | | | | | | Hour | \$40.00 | Wyatt DynaPro NanoStar DLS |
| | | | | | | | | | | Hour | \$35.97 | Horiba Jobin Yvon Fluorimeter FL-1005 |
| | | | | | | | | | | Hour | \$35.44 | Horiba Jobin Yvon Fluorimeter FL3-21 |
| | | | | | | | | | | Hour | \$35.62 | Shimadzu IR Prestige 21 |
| | | | | | | | | | | Hour | \$32.82 | Cary 5000 |
| | | | | | | | | | | Hour | \$50.00 | Aligent 7890a & 5975C |
| | | | | | | | | | | Hour | \$60.00 | Agilent 6120BMS, 1260 LC |
| | | | | | | | | | | Hour | \$40.00 | Contact Angle Goniometer |
| | | | | | | | | | | | | <u>External Users</u> |
| | | | | | | | | | | Hour | \$29.30 | TA Q200 |
| | | | | | | | | | | Hour | \$56.84 | Perkin Elmer Pyris 1 |
| | | | | | | | | | | Hour | \$58.53 | Malvern Viscotek (THF) |
| | | | | | | | | | | Hour | \$61.24 | Tosoh GPC |
| | | | | | | | | | | Hour | \$89.48 | Tosoh GPC (tri-chlorobenzene) |
| | | | | | | | | | | Hour | \$106.92 | Wyatt DynaPro NanoStar DLS |
| | | | | | | | | | | Hour | \$35.97 | Horiba Jobin Yvon Fluorimeter FL-1005 |
| | | | | | Hour | \$35.44 | Horiba Jobin Yvon Fluorimeter FL3-21 | | | | | |
| | | | | | Hour | \$35.62 | Shimadzu IR Prestige 21 | | | | | |
| | | | | | Hour | \$32.82 | Cary 5000 | | | | | |
| | | | | | Hour | \$79.91 | Aligent 7890a & 5975C | | | | | |
| | | | | | Hour | \$127.62 | Agilent 6120BMS, 1260 LC | | | | | |
| | | | | | Hour | \$94.90 | Contact Angle Goniometer | | | | | |

Georgia Institute of Technology
Grants and Contracts Accounting
Service/Recharge Center Rate Studies
11/7/2018

| No. | Name of Rate Study | Department | Rate Study Date | Annual Validation Date | Rates | | Service |
|-----------|---|--|-----------------|----------------------------|---|----------|--|
| | | | | | Basis | Amount | |
| 69. | Bioimaging and Biomechanical Properties Testing | IBB | 7/1/17 | 9/21/18 | <u>GEORGIA TECH INTERNAL USERS</u> | | |
| | | | | | Hour | \$50.80 | CT Personal Services, per hour |
| | | | | | Unit | \$3.95 | Set Up Charge |
| | | | | | Per Slice | \$0.05 | Medium Resolution, per slice |
| | | | | | Per Slice | \$0.14 | High Resolution, per slice |
| | | | | | Per Slice | \$1.06 | Custom Resolution, per slice |
| | | | | | Hour | \$25.00 | Fluorescence / Bioluminescence imaging, per hour |
| | | | | | Hour | \$13.69 | Biomechanics Machine Services, per hour |
| | | | | | <u>EDUCATIONAL INSTITUTES & IBB INDUSTRY PARTNERS</u> | | |
| | | | | | Hour | \$59.84 | CT Personal Services, per hour |
| | | | | | Unit | \$4.47 | Set Up Charge |
| | | | | | Per Slice | \$0.06 | Medium Resolution, per slice |
| | | | | | Per Slice | \$0.16 | High Resolution, per slice |
| | | | | | Per Slice | \$1.20 | Custom Resolution, per slice |
| | | | | | Hour | \$48.00 | Fluorescence / Bioluminescence imaging, per hour |
| | | | | | Hour | \$15.51 | Biomechanics Machine Services, per hour |
| | | | | | <u>INDUSTRY</u> | | |
| | | | | | Hour | \$69.89 | CT Personal Services, per hour |
| | | | | | Unit | \$5.24 | Set Up Charge |
| | | | | | Per Slice | \$0.07 | Medium Resolution, per slice |
| | | | | | Per Slice | \$0.19 | High Resolution, per slice |
| Per Slice | \$1.42 | Custom Resolution, per slice | | | | | |
| Hour | \$97.43 | Fluorescence / Bioluminescence imaging, per hour | | | | | |
| Hour | \$18.20 | Biomechanics Machine Services, per hour | | | | | |
| 70. | Electrical Testing of Materials and Devices | MSE | 7/1/17 | 9/10/18 | <u>Internal</u> | | |
| | | | | | Sample | \$250 | Initial Test Sample |
| | | | | | Use | \$250 | Standard Setup |
| | | | | | Sample | \$100 | Repeat of Initial Test Sample |
| | | | | | Cost | Cost | Non Standard Setup (Material) |
| | | | | | Hour | \$148 | Director Consulting |
| | | | | | Hour | \$50 | GRA Consulting |
| | | | | | <u>External (Industry)</u> | | |
| | | | | | Sample | \$255 | Initial Test Sample |
| | | | | | Use | \$257 | Standard Setup |
| | | | | | Sample | \$160 | Repeat of Initial Test Sample |
| | | | | | Cost | Cost | Non Standard Setup (Material) |
| | | | | | Hour | \$148 | Director Consulting |
| | | | | | Hour | \$64 | GRA Consulting |
| 71. | Tribology & Surface Engineering Lab | ME | 7/1/18 | <u>Internal/Federal</u> | | | |
| | | | | Hour | \$50 | Lab Rate | |
| | | | | <u>External (Industry)</u> | | | |
| | | | | Hour | \$50 | Lab Rate | |

Georgia Institute of Technology
Grants and Contracts Accounting
Service/Recharge Center Rate Studies
11/7/2018

| No. | Name of Rate Study | Department | Rate Study Date | Annual Validation Date | Rates | | Service |
|-----------|-----------------------------|-------------------------------|-----------------|------------------------|------------------------------|---------|-------------------------------|
| | | | | | Basis | Amount | |
| 72. | TKIS-GT Pyro Processing Lab | MSE | 7/1/18 | | <u>Internal /Federal</u> | | |
| | | | | | Test | \$1,534 | Per Test |
| | | | | | Hour | \$122 | Instrument/Kiln Only Per Hour |
| | | | | | Hour | \$51 | Senior Scientist |
| | | | | | Hour | \$185 | Senior Consultant |
| | | | | | <u>External (TKIS Users)</u> | | |
| | | | | | Test | \$1,534 | Per Test |
| | | | | | Hour | \$122 | Instrument/Kiln Only Per Hour |
| | | | | | Hour | \$51 | Senior Scientist |
| | | | | | Hour | \$185 | Senior Consultant |
| | | | | | <u>External (Industry)</u> | | |
| | | | | | Test | \$1,534 | Per Test |
| Hour | \$122 | Instrument/Kiln Only Per Hour | | | | | |
| Hour | \$51 | Senior Scientist | | | | | |
| Hour | \$185 | Senior Consultant | | | | | |
| 73. | TEP Core Lab | BME | 7/1/18 | | <u>Internal</u> | | |
| | | | | | Per Slide | \$2 | Histology |
| | | | | | Hour | \$16 | Microscopy |
| | | | | | Hour | \$5 | Biomolecular Analysis |
| | | | | | Per Cycle | \$25 | Sterilization |
| | | | | | <u>External Academic</u> | | |
| | | | | | Per Slide | \$2 | Histology |
| | | | | | Hour | \$22 | Microscopy |
| | | | | | Hour | \$7 | Biomolecular Analysis |
| | | | | | Per Cycle | \$25 | Sterilization |
| | | | | | <u>External</u> | | |
| | | | | | Per Slide | \$100 | Histology |
| Hour | \$158 | Microscopy | | | | | |
| Hour | \$100 | Biomolecular Analysis | | | | | |
| Per Cycle | \$32 | Sterilization | | | | | |

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