**Seattle's Hub for Industry-driven Nanotechnology Education**
**North Seattle College**
9600 College Way North
Seattle, WA 98103
www.seattlenano.org

**NSC Nanotechnology Lab Access**

**Equipment Access:** NSC students, academic users, and industry users may operate the characterization and fabrication equipment in the NSC Nanotechnology Lab only after completing a two day (total four hours) training, and passing a competency quiz. During training, one development sample from the user will be imaged or fabricated (standard samples can be provided by Staff). Training is mandatory and has an accompanying fee. Student interns need to undergo training and pass the competency quiz but no fee is charged.

Before training can begin a personal injury waver form, a user agreement form, and financial contract form must be filled out, signed, and submitted to the lab staff. Training and instrument use is not allowed unless these necessary pieces of documentation are complete.

Once training is complete, NSC students, academic users, and industry users will need to pay a daily fee for entering the lab. An hourly rate for each piece of equipment is listed, and is charged in addition to the daily fee.

> **NSC Students** – Defined as full-time NSC students, part-time NSC students, and NSC alumni of the Nanotechnology AAS degree or Nanotechnology certificate program. Students must be enrolled during the quarter of equipment use. Students in paid and unpaid internships are granted the NSC student rate. The fee structure is set up to encourage use of the instruments by NSC students in internships or as part of student projects.
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> **Academic Users** – Defined as full-time and part – time students in matriculating programs. Includes students in the Seattle College District other than NSC, UW undergraduate and graduate students, Seattle University, Shoreline Community College, Edmonds Community College, and Highline Community College students. Academic user category also includes instructors, professors and post-doctoral students.
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> **Industry Users** – Defined as any anyone outside the categories of NSC students and Academic Users. Including employees of companies granting internships to NSC students. Industry Users that use NSC students to run the lab instruments pay the discounted NSC student rate.

**Staff Support** – The staff of the North Seattle Nanotechnology program will provide clear and detailed training procedures, standard operating procedures (SOPs), and user manuals for each piece of equipment. Occasional and informal training and assistance at no additional charge beyond the daily use fee; however, extensive assistance, co-development, sample preparation, and materials will incur the standard Engineering hourly rate.

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**NSC Nanotechnology Lab Fee Structure** Effective: January 10, 2016

| User Type | NSC student | Academic | Industry |
|---|---|---|---|
| Access Fee (daily) | $0.00 | $20.00 | $50.00 |
| Hourly Rates | | | |
| *SERVICES* | | | |
| Training (flat fee for 2-4 hours) | $0.00 | $50.00 | $75.00 |
| | | | |
| Engineering (hourly rate) | $0.00 | $60.00 | $100.00 |
| | | | |
| *CHARACTERIZATION HOURLY RATES (30 MINUTE MINIMUM, PRO-RATED IN 15 MINUTE INCREMENTS)* | | | |
| Aspex EXplorer SEM *(imaging and EDS)* | $45.00 | $75.00 | $125.00 |
| Bruker Dektak XT Profilometer | $15.00 | $30.00 | $45.00 |
| Olympus Fluoview FV10i *Confocal Laser Scanning Microscope* | $45.00 | $75.00 | $125.00 |
| NanoSurf EasyScan2 AFM | $30.00 | $45.00 | $90.00 |
| Malvern Zetasizer Nano ZS | $15.00 | $30.00 | $45.00 |
| VCA Optima Goniometer | $15.00 | $30.00 | $45.00 |
| Lucas Labs 4 pt. Probe | $15.00 | $30.00 | $45.00 |
| Solar Light Solar Simulator | $20.00 | $30.00 | $60.00 |
| *FABRICATION AND SAMPLE PREPRATION HOURLY RATES (UNLESS NOTED OTHERWISE: 15 MINUTE MINIMUM, PRO-RATED IN 15 MINUTE INCREMENTS)* | | | |
| | | | |
| Hummer VI Sputter Coater *(Au or Au/Pd)* | $42.00 | $65.00 | $130.00 |
| | | | |
| Cressington 108A Carbon Coater *(Rate per coating run)* | $10.00 | $20.00 | $30.00 |
| | | | |
| Hummer VI Plasma Etch *(Argon)* | $40.00 | $60.00 | $120.00 |
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|---|---|---|---|
| **Branson 2510 Sonicator** | $10.00 | $15.00 | $30.00 |
| | | | |
| **ChemSol Spin Coater** | $15.00 | $30.00 | $45.00 |
| | | | |
| **Vacuum Oven** | - | - | - |
| | | | |
| **Epilog Zing16 Laser Cutter** ***(materials extra)*** | $20.00 | $30.00 | $60.00 |
| | | | |
| **MakerBot Replicator2 3D Printer** ***(1.75mm PLA filament included)*** | $30.00 | $60.00 | $110.00 |