SEM Usage Policy
(Zeiss Supra 55 VP with Genesis 4000 EDAX and FEI Quanta 400 SEM)
Revised: February 15, 2016

Goal:
To increase usage and availability while maintaining excellent condition of the instrument so that it consistently meets all resolution specifications.

Hours of Operation:
For Zeiss Supra 55 VP SEM/EDAX: The facility operates from 8 a.m. to 8 p.m. on week days only (excluding UTA holidays).
Facility is available to experienced and qualified users on 24/7 basis.
For FEI Quanta 400 SEM (located in Bay-4 of the cleanroom), access is subject to the rules and regulations for cleanroom access.

24/7 Access Policy:
24/7 access is available to qualified and experienced users. Sixty hours of hands-on after training experience on ZEISS-SEM is required without violations. Apply by sending an email to nanofab@uta.edu if you have accumulated these hours and would like 24/7 access.

Maximum number of trained users (excluding staff) at any one time:
There is no restriction on number of trained users per faculty group.

Prerequisites for training:
1. Trainee must be supervised by a UTA graduate faculty member.
2. Trainee must be M.S./Ph.D./Post-doc level.

Training:
1. Training will be done measuring real samples provided by the trainee.
2. Theory will be explained.
3. Equipment will be described in detail.
4. Software and all its capabilities will be described.
5. Trainee will learn to use and follow SOP.
6. There will be at least six training sessions before restricted independent use will be allowed.
7. All six training sessions should be completed within a four week period.
8. If a user does not use the equipment for an entire quarter, he or she might have to go through the training again.

Training Charges:
$450 per user.

Usage Charges:
Charging will be done on quarterly basis. The first quarter of the year starts on Sept. 1st.
Rate: $50 per hour. For ‘cap’ please see the table below.

Staff-assisted Measurements:
These are available at the same rates and ‘cap’ as in the table below.
Revised February 15, 2016
E-beam Writer/FIB Usage Policy  
(Zeiss Cross Beam 1540 with Nabbity Writer)  
Revised: February 15, 2016

Goal:
To increase usage and availability while maintaining excellent condition of the instrument so that it consistently meets all resolution specifications.

Hours of Operation:
Facility operates from 8 a.m. to 8 p.m. on week days only (excluding UTA holidays). Facility is available to experienced and qualified users on 24/7 basis.

24/7 Access Policy:
24/7 access is available to qualified and experienced users. 60 hours of hands-on after training experience on FIB/E-beam Writer is required without violations. Apply by sending an email to nanofab@uta.edu if you have accumulated these hours and would like 24/7 access.

Maximum number of trained users (excluding staff) at any one time:
There is no restriction on number of trained users per faculty group.

Prerequisites for training:
1. Trainee must be supervised by a UTA graduate faculty member.
2. Trainee must be M.S./Ph.D./Post-doc level.
3. Trainee must be an authorized SEM (Zeiss Supra 55VP) user.

Training:
1. Training will be done measuring real samples provided by the trainee.
2. Theory will be explained.
3. Equipment will be described in detail.
4. Software and all its capabilities will be described.
5. Trainee will learn to use and follow SOP.
6. There will be at least six two-hour training sessions before restricted independent use will be allowed.
7. All six training sessions should be completed within a four-week period.
8. If a user does not use the equipment for an entire quarter, he or she might have to go through the training again.

Training Charges:
None.

Usage Charges:
Charging will be done on quarterly basis. The first quarter of the year starts on September 1st. Rate: $80 per hour. For ‘cap’ please see the table below.

Staff-assisted Measurements:

Revised February 15, 2016
These are available at the same rates and ‘cap’ as in the table below.

**USAGE FEE SCHEDULE FOR ACADEMIC USERS FROM UTA**

All hourly fees are per person (student, post-doc). Minimum time unit is 1 hr.

All supplies and consumables are to be provided (subject to the approval of the NanoFab management) by the user except for those provided by NanoFab. Consumables specific to equipment might have to be purchased from NanoFab. A list of consumables provided free of charge and those to be purchased from NanoFab is provided upon request.

<table>
<thead>
<tr>
<th>Equipment / Service</th>
<th>New User fee</th>
<th>Usage, Assisted Usage, Training (Prior on-site training required) /hr</th>
<th>Maximum per quarter per faculty</th>
<th>Policy for maximum fee</th>
</tr>
</thead>
<tbody>
<tr>
<td>Monthly Access Fee</td>
<td>None</td>
<td>-</td>
<td>-</td>
<td>can be combined with usage of other common equipment in NanoFab towards max. fee of $1,500/quarter/group.</td>
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<tr>
<td>General Lithography / Patterning</td>
<td>None</td>
<td>$50</td>
<td>$1,000</td>
<td>$450</td>
</tr>
<tr>
<td>General Wet Chemistry</td>
<td>None</td>
<td>$50</td>
<td></td>
<td>$1,000</td>
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<tr>
<td>RF / DC Sputtering</td>
<td>None</td>
<td>$50</td>
<td></td>
<td></td>
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<tr>
<td>Thermal Evaporation</td>
<td>None</td>
<td>$50</td>
<td></td>
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<tr>
<td>PLD / Laser Annealing</td>
<td>None</td>
<td>$50</td>
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<tr>
<td>E-Beam Evaporation</td>
<td>None</td>
<td>$50</td>
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<tr>
<td>PECVD</td>
<td>None</td>
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<tr>
<td>DRIE</td>
<td>None</td>
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<tr>
<td>RIE (III-V)</td>
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<tr>
<td>AFM</td>
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<td>RTA</td>
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<td>Dicing Saw</td>
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<tr>
<td>E-Beam Writer*</td>
<td>None</td>
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<td>FIB *</td>
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<td>SEM / EDAX *</td>
<td>None</td>
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<td>Safety Training (required)</td>
<td>None</td>
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<td>NanoFab Tours / Usage Assessment</td>
<td>None</td>
<td>free</td>
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</table>