<table>
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<tr>
<th>Service Unit</th>
<th>Description of Service</th>
<th>Cost / Unit (CDN $)</th>
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<tr>
<td>Internal (uOttawa)</td>
<td>External - Academic</td>
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### PROCUREMENT OF SERVICES

1. **SEM imaging using Raith Pioneer or Gemini500 SEM**
   Includes technologist time
   - **Service Unit:** Hour
   - **Cost:**
     - **Internal (uOttawa):** 40
     - **External - Academic:** 80
     - **External - Non-academic:** 240

2. **E-beam lithography using Raith Pioneer**
   Includes technologist time
   - **Service Unit:** Hour
   - **Cost:** To be negotiated

3. **Etching using SAMCO**
   Includes technologist time and process gases
   - **Service Unit:** Hour
   - **Cost:**
     - **Internal (uOttawa):** 30
     - **External - Academic:** 60
     - **External - Non-academic:** 180

4. **Metal deposition using Angstrom Evaporator**
   Includes technologist time and common metals (except precious metals)
   - **Service Unit:** Run
   - **Cost:**
     - **Internal (uOttawa):** 100
     - **External - Academic:** 150
     - **External - Non-academic:** 200

5. **Wet processing**
   Includes technologist time and common consumables
   - **Service Unit:** Hour
   - **Cost:**
     - **Internal (uOttawa):** 40
     - **External - Academic:** 80
     - **External - Non-academic:** 240

6. **Metrology work (AFM, Elipsometer, Metricon, Profilometer)**
   Includes technologist time
   - **Service Unit:** Hour
   - **Cost:**
     - **Internal (uOttawa):** 40
     - **External - Academic:** 80
     - **External - Non-academic:** 240

7. **Photolithography work (Mask Aligner)**
   Includes technologist time
   - **Service Unit:** Hour
   - **Cost:**
     - **Internal (uOttawa):** 40
     - **External - Academic:** 80
     - **External - Non-academic:** 240

8. **Post-processing (wire bonding, solder reflow) and sample preparation**
   Includes technologist time
   - **Service Unit:** Hour
   - **Cost:**
     - **Internal (uOttawa):** 40
     - **External - Academic:** 80
     - **External - Non-academic:** 240

9. **ORION NanoFab inspection / microscopy**
   Includes technologist time
   - **Service Unit:** Hour
   - **Cost:**
     - **Internal (uOttawa):** 60
     - **External - Academic:** 120
     - **External - Non-academic:** 240

10. **ORION NanoFab processing**
    Includes technologist time
    - **Service Unit:** Hour
    - **Cost:** To be negotiated

### MEMBERSHIPS

- **Can be prorated for 4-month terms**

- Memberships will not be granted for educational purposes
- Memberships will not be granted to M.Eng. students or visiting researchers, except for exceptional circumstances as adjudicated by the NanoFab Director
- Training will not be provided to undergraduate students for AFM’s or beam tools (GeminiSEM 500, Raith Pioneer SEM + EBeam, Orion NanoFab, Evaporator)

#### NanoFab Package:
- Unlimited access to all labs and all tools for three personnel
- Includes technologist time for training users
  - **Service Unit:** Year
  - **Cost:**
    - **Internal (uOttawa):** 5,500*
    - **External - Academic:** 11,000
    - **External - Non-academic:** To be negotiated

#### Metrology Package:
- Unlimited access to all metrology and microscopy tools for three personnel
- Includes technologist time for training users
  - **Service Unit:** Year
  - **Cost:**
    - **Internal (uOttawa):** 1,500*
    - **External - Academic:** 3,000
    - **External - Non-academic:** To be negotiated

#### Wet Chemistry Package:
- Unlimited access to wet chemistry lab for chemical storage and use of fume hood and wet benches by qualified students and personnel
  - **Service Unit:** Year
  - **Cost:**
    - **Internal (uOttawa):** Free
    - **External - Academic:** 1,000
    - **External - Non-academic:** To be negotiated

### Please note:
- We reserve the right to remove user access when deemed necessary.
- Process knowledge is a collaborative process. The CRPuO is a multi-user facility, therefore, process knowledge is to be shared and made available to other users upon request.
- Training on a tool by a technologist is only provided to users who subscribe to service options 11, 12 or 13.