User Fees Schedule*:

1. **Senior Design Projects** = $3,000 per project for 2 semesters (powders have to be provided by the department or faculty supervisor/mentor, or, company sponsoring the senior design project) – this will include the CAAAM technical support for pre-processing and post-processing of powders, substrates, actual depositions etc.

   **Breakdown of costs**
   - 20 hrs technician time per semester = 20 x $50 = $1000 (total for 2 semesters = $2000)
   - Stainless steel powders = 20 lbs x $25/lb = $500,
   - Substrates + grinding + cutting + cleaning = $500

   **Total = $3000 for the entire project (based on groups of 3 or 4 students for 2 semesters)**

   More detailed senior design projects, involving extensive use of the CAAAM facility, and those projects sponsored by an external company, will require case by case discussion with CAAAM staff for budgeting the required amount and could exceed the $3000 minimum.

2. **Semester course using CAAAM facilities**:
   a. 3 hrs lab per week + 2 hrs preparation, technician costs = $50 x 5 = $250/week = $3500 per semester (based on 14-week semester)
   b. Supplies for pre-processing, processing and post-processing (substrate preparation, powders, wire EDM cutting, milling etc.) = $1500 per semester

   **Total costs per course per semester = $5,000**

3. **Graduate research projects**:
   a. Technician rate = $50 per hour (to be billed as per usage)
   b. Powders to be provided by the graduate student/supervisor.
   c. Supplies for pre-processing and post-processing of AM prepared samples = $1000 per semester of project

*Notes:*

- **Technician costs per hour** = $100,000 (salary + benefits) / 2080 hrs per year = $48.08/hr ~ $50/hr (The calculation above does not take into account that the technician has two weeks of vacation and one-week Winter break which reduces the billable hours.)

- **Cost recovery:** These costs are only for using CAAAM facilities and do not include characterization/processing work carried out in MDCL/cleanroom facilities of MRF. Costs for those have to be provided separately as per standard rates.

- The rates are prepared in consultation with and approval by Charles Tarantino, Assistant Vice President, Office of Grants and Contracts Administration, UNT in accordance with the Federally mandated audit guidelines/requirements for the university wide user facilities.