



## The University of Western Ontario

University Machine Services  
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May 1, 2019

### **University Machine Services Fee Schedule**

**Effective from May 1, 2019 to April 30, 2020**  
**Internal to Engineering Charges Basic rate \$67.57/hr**

#### **UWO Internal Engineering Contracts - Instructional and Operating – Research**

UMS develops hourly charge-out rates from supporting historical data and the forecasting of revenues and expenses for the current fiscal year. The number of billable hours is divided by the total of all shop expenses with the intent of providing services internally at cost. Any surplus is used for operational and faculty improvements.

Charges and estimates are calculated hourly as follows including overhead and all support equipment not listed. The shop's hourly charge-out rates will be the following:

#### **Technicians:**

Manufacturing technicians including all conventional equipment:	\$67.57
Engineering and Project Management	\$77.71

#### **Equipment: (run time cost per hour)**

##### *CNC 4 axis machining centers*

Fadal 15 x 30	\$11.00
Haas 20 x 50	\$16.50
Haas VF2 15x30	\$20.50

##### *CNC Lathe*

Standard Modern 17x50	\$10.50
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##### *Stratasys Fused Deposition Rapid Prototyping*

Stratasys 400MC	\$17.50/Cubic inch
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EOS P110 and 396 SLS Printers

\$20.00/ Cubic inch

##### Wire EDM

Agie-Charmilles 20P wire EDM System	\$30.00
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