

Reactor Engineering and Catalyst Testing (*REACT*) Instrumentation and Services Rates

Pricing for standard experiments are provided below (cost for staff time are included). Sample measurement requests can be submitted via NUCore. Instruments can also be run by students and charged an hourly rate (there is no training fee). Modifications of standard measurements are subject to additional charges based on the instrument hourly rate. Contact *REACT* staff with questions or quotes.

BenchCAT4000 Reactor System	Internal	External Academic	Other External
Hourly Rate	\$6.00	\$9.48	\$12.00

Agilent 1200 HPLC Reactor System	Internal	External Academic	Other External
Hourly Rate	\$20.00	\$31.60	\$40.00

Parr Reactor system	Internal	External Academic	Other External
Hourly Rate	\$12.00	\$18.96	\$24.00

GEMStar-8 ALD system	Internal	External Academic	Other External
Hourly Rate	\$20.00	\$31.60	\$40.00
1-40 cycles of deposition**	\$80.00	N/A	N/A

**Precursors available for Al, Si, and Ti deposition, additional charges for precursor usage may apply

Nicolet 6700 In situ DRIFTS	Internal	External Academic	Other External
Hourly Rate	\$15.00	\$23.70	\$30.00
<i>NH₃ Characterization</i>	\$60.00	N/A	N/A
<i>Pyridine Characterization</i>	\$60.00	N/A	N/A
<i>CO Characterization</i>	\$60.00	N/A	N/A

SRS UGA-100 Mass Spec system	Internal	External Academic	Other External
Hourly Rate	\$15.00	\$23.70	\$30.00
Bulk Hourly Rate***	\$6.50	N/A	N/A

***Bulk rates apply for reservations between 1 and 2 weeks
Updated 1/26/21

Micromeritics 3Flex Physisorption Instrument	Internal	External Academic	Other External
Hourly Rate	\$11.50	\$18.17	\$23.00
Bulk Hourly Rate***	\$3.50	N/A	N/A
<i>Surface Area (SA) Only*</i>	\$69.00	N/A	N/A
<i>Mesoporous Sample*</i>	\$138.00	N/A	N/A
<i>Microporous Sample*</i>	\$207.00	N/A	N/A
<i>Kr Surface Area*</i>	\$69.00	N/A	N/A
<i>CO₂ @ 273K*</i>	\$138.00	N/A	N/A

* Cost is for 1-3 samples

AMI-200 Temperature Programmed Instrument	Internal	External Academic	Other External
Hourly Rate	\$15.00	\$23.70	\$30.00
Bulk Hourly Rate***	\$6.50	N/A	N/A
<i>H₂ TPR or O₂ TPO w/ UGA-100</i>	\$90.00 \$180.00	N/A	N/A
<i>NH₃ TPD w/ UGA-100</i>	\$90.00 \$180.00	N/A	N/A
<i>CO Chemisorption and TPD w/ UGA-100</i>	\$105.00 \$210.00	N/A	N/A
<i>CO₂ TPD w/ UGA-100</i>	\$105.00 \$210.00	N/A	N/A

In situ UV-vis Raman system	Internal	External Academic	Other External
Hourly Rate	\$35.00	\$55.30	\$70.00

Consulting Services	Internal	External Academic	Other External
General Hourly Rate	\$125	\$197.50	\$250
<i>XAS training workshop</i>	\$125	N/A	N/A