

Washington Clean Energy Testbeds Rate Structure (Effective 05/01/2024)

The Washington Clean Energy Testbeds (WCET) is a non-profit business unit within the University of Washington (UW). WCET is mandated to charge time and materials on a cost reimbursement basis. Academic pricing is achieved through state subsidies. Industrial rates are set for cost recovery. Cost basis for rates is based on cost of operation divided by utilization.

User Classifications:

The following user classifications determine eligibility for specific rate plans:

University of Washington and Affiliates: University of Washington researchers or affiliate-sponsored researchers (e.g. UW APL) qualify for **Tier 1** pricing. Candidates eligible for **Tier 1** Rates are not assessed an overhead rate as the UW overhead rates are already applied to the research grant or other internal UW funding. These users must pay with a UW budget number.

Non-Profit: Researchers employed by or with appointments at non-UW academic institutions, government organizations, or other non-profit organizations qualify for **Tier 2** pricing. These candidates are charged **Tier 2** rates plus an overhead charge.

Industry: Any employees of non-academic and non-government organizations who intend on using the WCET facility for self-directed work qualify for **Tier 3** pricing. These candidates are charged **Tier 3** rates plus an overhead charge.

Remote: Entities that solely seek to pursue limited scope process work that is to be conducted by WCET staff provided on a best-effort, time and materials, cost reimbursement basis that includes the pro-rated hourly equipment plus the staff engineering rate (\$150/HR) and overhead. Due to the experimental nature of work, WCET cannot guarantee quality assurance in meeting all remote work specifications, but will use best-effort methods to attempt to obtain a satisfactory result for the client.

Multiple Affiliations: Users with multiple affiliations and projects may be classified into multiple rate structures, but all plan charges, caps, and restrictions will be addressed individually for each organization/project/user combination.

Overhead

Current overhead for all fees accrued by all non-UW users is 6.85%. The overhead rate is determined by UW, not WCET, and is subject to change.

Off-Campus Overhead Option for UW User Grants

Grant proposals of UW investigators whose primary site of research is WCET may be eligible for the off-campus overhead rate (26%). WCET has established a procedure for supporting grant applicants seeking an off-campus rate based on their use of the facility. Our screening is based on the following evidence of substantial use.

All proposals must meet the following two criteria:

1. Centrality of WCET to proposal: The Facilities and Resources section for the proposal must clearly indicate that WCET facilities are central to the proposal.
2. Budget must include a “Facility Access Fee” to demonstrate to UW that the work is primarily being done at WCET and warrants the off-campus overhead rate. Users paying this fee are given access to a “hot desk” and use of all shared spaces (classroom, meeting rooms). Users can upgrade to reserved desks and offices (if available) at the standard price less the cost of a hot desk, which will have been covered by the initial fee. This fee will be charged as object code 03-80 and will show up in UW’s MyFD as “RENTALS-BLDGS & SPACE.” The PIs will be responsible for ensuring that this charge is allowed by their funding agency. WCET can provide reasonable support/justification for the charge. Access fees are REQUIRED for all new proposals seeking to use the off-campus overhead rate and access privileges will be assigned to specific individuals on that grant. Access fees cover single FTEs (faculty, staff, postdocs) and 0.5 FTEs (grad students). No other subdivisions are allowed. The access fee is \$500/month for 1.0 FTEs and \$250/month for 0.5 FTEs.

If your proposal meets the two criteria listed above, we will provide a letter supporting the request for an Off-Campus Rate.

Please contact Michael Pomfret at mpomfret@uw.edu for more details.

Industry Memberships

Memberships are offered to users qualifying for the Industry rate at a cost of \$2500 per month. Intended for long-term, heavy users, memberships provide a fee schedule that reduces costs once the client has reached a certain amount of facilities usage. The membership fee provides the Industry user with \$200 toward desk or office space (if available), \$200 toward reserved lab bench space (if available), use of the classroom and meeting room at no charge, and **Tier 2** instrument usage fees.

Please contact Michael Pomfret at mpomfret@uw.edu for more details.

Private Equipment Access

Academic and industrial organizations may elect to operate and maintain private equipment at WCET. Due to the wide range of equipment complexity and value to the laboratory and the resulting impact on the staff, workflow, and facilities these arrangements will be negotiated on a case-by-case basis.

Materials

Supplies, chemicals, and materials are charged at cost. Overhead fees apply for all non-UW users.

Shipping

Remote users will be charged the shipping fees, a staff handling fee, and overhead for all shipped samples.

Policy Clarifications:

Fees: Requests for billing changes must be submitted to wcet@uw.edu. Planned or equipment-related adjustments are complimentary. Adjustment requests due to user negligence will be assessed an increasing change fee of \$60. Forgetting to log off prevents other users from utilizing tools.

Reservations: Reservations are **highly** recommended for all equipment and are required on certain instruments. Priority is given to users that have reserved equipment. “Drop-in” users are required to observe reservations made by other users. Repeatedly making excessively long reservations will result in users being charged for the entire reservation time.

No Show: Users that habitually do not show up for appointments will be charged instrument and staff time for the entire time blocked out for the appointment.

Visitors: Visitor requests must be made via the website. Visitors participating in lab work must be accompanied by a registered user, obey all WCET policies and procedures, and are assessed a \$50 fee per day.

Cleans: Tools that require mandatory cleans are the responsibility of the user and should be factored in when considering the cost of operations. Users that do not follow the prescribed cleaning protocol will be assessed full tool plus staff time for running cleans.

Fee Schedule:

Effective January 1, 2024. All rates are subject to change.

Rate Category	Term	Tier 1 UW	Tier 2 Non-Profit & Industry Members	Tier 3 Standard Industry
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Overhead Fee	month	0%	6.85%	6.85%
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Building Fees

Equipment Space Rental	month	Consultation required for all equipment space rentals		
Reserved Lab Bench	month	\$900	\$900	\$900
Hot Seats	month	\$250	\$250	\$250
Dedicated Desk	month	\$375	\$375	\$375
Private Office	month	\$500	\$500	\$500
Meeting Room	hour	\$20	\$20	\$55
Classroom	hour	\$30	\$30	\$80
Both Rooms	hour	\$40	\$40	\$105

Staff Fees

Engineering	hour	\$150	\$150	\$150
Training	hour	\$75	\$150	\$150

Systems Integration Fees

OpalRT Control Room	hour	\$44	\$66	\$132
Keysight PV Emulator	hour	\$12	\$18	\$36
PLECS Power Electronics Simulator	hour	\$12	\$18	\$36
Power Hardware in the Loop	hour	\$12	\$18	\$36

Controlled Environments

Controlled Environment Room	hour	\$18	\$27	\$54
Glovebox 1 (N2)	hour	\$18	\$27	\$54
Glovebox 2 (N2)	hour	\$18	\$27	\$54
Glovebox 3 (Ar with Coin Cell Press)	hour	\$22	\$33	\$66

Rate Category	Term	Tier 1 UW	Tier 2 Non-Profit & Industry Members	Tier 3 Standard Industry
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Printers and Coaters

Formlabs 3D Printer	hour	\$12	\$18	\$36
Ultimaker 3D Printer	hour	\$12	\$18	\$36
nScrypt 3d Printer	hour	\$64	\$96	\$192
SIJ-050 Ink Jet Printer	hour	\$32	\$48	\$96
SIJ-150 Ink Jet Printer	hour	\$60	\$90	\$180
Dimatix Ink Jet Printer	hour	\$22	\$33	\$66
New Long Screen Printer	hour	\$20	\$30	\$60
Laurell Spin Coater	hour	\$16	\$24	\$48
FOM Mini Roll Coater	hour	\$36	\$54	\$108
FOM Sheet Coater	hour	\$36	\$54	\$108
FOM Alpha Roll-to-Roll Coater	hour	\$76	\$114	\$228
Nanonex Nano Imprint Lithographer	hour	\$50	\$75	\$150
Erichsen Blade Coater	hour	\$24	\$36	\$72

WRF Roll-to-Roll Facility

FOM Roll-to-Roll Printer	hour	\$116	\$174	\$348
Xenon Flash Cure Lamp	hour	\$24	\$36	\$72

Materials Processing Equipment

Centrifuge	hour	\$24	\$36	\$72
Mars6 Microwave Reactor	hour	\$8	\$12	\$24
Standard Oven	hour	\$6	\$9	\$18
Thinky Mixer	hour	\$12	\$18	\$36
Blue M Oven	hour	\$12	\$18	\$36
Annealsys RTP	hour	\$30	\$45	\$90
UVO Cleaner	hour	\$22	\$33	\$66
Vacuum Oven	hour	\$8	\$12	\$24
Ball Mill	hour	\$10	\$15	\$30
Jar Mill	hour	\$10	\$15	\$30
Probe Sonicator	hour	\$10	\$15	\$30
Box Furnace	hour	\$6	\$9	\$18

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Materials Analysis Equipment

Digital Microscope	hour	\$26	\$39	\$78
Kruss Drop Shape Analyzer	hour	\$28	\$42	\$84
Anton Paar Dynamic Light Scatterer	hour	\$40	\$60	\$120
DekTak Profilometer	hour	\$56	\$84	\$168
Olympus Optical Profilometer	hour	\$28	\$42	\$84
Anton Paar Rheometer	hour	\$60	\$90	\$180
Phenom ProX SEM	hour	\$48	\$72	\$144
Mettler-Toledo TGA/DSC	hour	\$42	\$63	\$126
Anton Paar BET	hour	\$2	\$3	\$6
Micromeritics BET	hour	\$2	\$3	\$6
ThermoNicolet FTIR	hour	\$38	\$57	\$114
Agilent UV-Visible Spectrometer	hour	\$36	\$54	\$108
Bruker X-Ray Diffractometer	hour	\$48	\$72	\$144
Four-Point Probe	hour	\$12	\$18	\$36
Oxford AFM	hour	\$42	\$63	\$126

Battery Testing Equipment

Maccor Test Channels, set of 8 up to 5V, 5A	hour	\$1	\$2	\$2
	week	\$50	\$75	\$75
Arbin Test Channel, 1 channel up to 5V, 60A	hour	\$1	\$2	\$2
	week	\$50	\$100	\$100
Arbin Test Channel, 1 channel, up to 60V, 50A	hour	\$1	\$2	\$2
	week	\$50	\$100	\$100
Arbin Coulombic Tester, 1 channel up to 5V, 5A	hour	\$1	\$2	\$2
	week	\$50	\$100	\$100
Potentiostats	hour	\$16	\$24	\$48
	week	\$800	\$1,200	\$2,400

Photovoltaic Fabrication & Testing

Bent River Vacuum Laminator	hour	\$36	\$54	\$108
Spire Flash Tester	hour	\$38	\$57	\$114
OAI Solar Sim	hour	\$36	\$54	\$108
PV Measurements EQE/IQE	hour	\$36	\$54	\$108
Atlas UV Chamber	hour	\$2	\$3	\$6

Environmental Device Testing

Tenney Chamber	hour	\$4	\$6	\$12
	week	\$200	\$300	\$600