



## Mohammad Taghavi's Group Equipment List

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Equipment	Specification	Qty.	Parts	Cost of internal usage per hour	Cost of external usage per hour	Cost of student or technician for operation per hour	Responsible
Rheometer	DHR-3 TA	1	3 geometries for different fluids	\$150	\$225	\$75	Pedram Mousavi
Rheometer	Bohlin (C-VOR)	1	-	\$100	\$150	\$75	Pedram Mousavi
Ultra High-speed camera	FASTCAM UX100	1	-	\$250	\$375	\$75	Pedram Mousavi

B&W cameras	Basler cA2040-90um	3	Two wide lenses	\$100	\$150	\$75	Pedram Mousavi
Color camera	Basler acA4112-30uc	1	Fujinon lens, 8.0 mm	\$100	\$150	\$75	Pedram Mousavi
High resolution camera	Canon EOS R5	1	-	\$150	\$225	\$75	Pedram Mousavi
Pumps	4 old gear pumps, 2 new gear pumps Ismatech 405A, 1 new gear pump (Hossein's), 1 small gear pump (Shan's for filling pipe), 1 very old pump in 00LAB (not working, Faical's)	7	-	\$100	\$150	\$75	Pedram Mousavi
Laser (Class IIIb)	LRS-0532 DPSS Laser System Nominal power=300 mW	1	Laser head, power supply and safety goggles	\$150	\$225	\$75	Pedram Mousavi
Laser (Class IV)	Photonic industries DM 527-30 Nanosecond Laser (Max energy = 35 mJ)	1	Laser head, power supply and safety goggles	\$150	\$225	\$75	Pedram Mousavi

Ultrasonic Doppler Velocimetry	DOP4000 Period of emitted pulse=between 100 ns (10 MHz) and 2220 ns (450 kHz), with a resolution of 20 ns	1	3 probes and 1 front panel	\$150	\$250	\$75	Pedram Mousavi
Tomographic PIV	Phantom CMOS (VEO-E 340L) TR Tomo PIV	1	4 high-speed cameras and a laser device (class IV laser)	\$400	\$800	\$75	Hossein Hassazndeh
Mixer/Stirrer	IKA (max rpm 2000)	3	1 blade	\$100	\$150	\$75	Pedram Mousavi
Density meter	Anton Paar DMA accuracy O (10-4)	1	Density meter + temperature sensor	\$100	\$150	\$75	Pedram Mousavi
pH meter	SX610 Waterproof pH Pen Tester, $\pm 0.1$ pH Accuracy, 0-14.0 pH Range	1	pH meter, pH 7.0 calibration solution and a 3M KCL storage solution	\$100	\$150	\$75	Pedram Mousavi
Balance	OHAUS scout pro (Readability 0.1 g), OHAUS AX423/E Adventurer Electronic (Readability 1 mg)	2	balance plate, case	\$100	\$150	\$75	Pedram Mousavi

High-intensity powerful LED lights	Innova LED lights 40 W, 4 ft, 5000 K	2	-	\$100	\$150	\$75	Pedram Mousavi
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