Bioreactor Bill of Materials (Assumes that lab already has breadboard, circuits, and resistors for control system and a power supply)

Item	Material	Cost (I could probably get a grant for some of these parts from NYU)
F Style Container	high-density polyethylene (HDPE)	$2.92 but can probably get for free
Waterproof DS18B20 Digital Temperature Sensor	Stainless steel tube jacketed in PVC. Recommended up to 100℃	$9.95
Silicon Heating Pad (2x)	Up to 235℃	$33.98
Rectangular air stone		$6.25
Air Pump		$14.22
Teflon Tubing	PTFE	$4.23
pH sensor for arduino	glass	$29.50
Mylar tape		I already have this. I can send to OI
Motor Controller		$16.99
Turbidity Sensor	Operating temp: 5℃~90 ℃	$9.90
Peristaltic Pump		$9.80
Flow Sensor		$8.90
Arduino Mega		$32.95
LCD screen		I already have a bunch. Can send to OI for free
Ethernet Shield w/ micro SD		$24.95

		Total: $204.54