

1.	Bruker ARX-300 NMR	
	a. Liquid nitrogen	\$2700
	i. One 230 Liter tank for two week's fill, \$99.25 per tank	
	ii. $\$100 * (54/2) = \2700.00 per year	
	b. Liquid Helium (refill four times per year)	\$1472
	i. One 60 Liter tank: $\$4.75 \times 60 \text{ liter} = \285	
	ii. Delivery fee \$83	
	iii. $(\$285 + \$83) \times 4 = \$1472$ per year	
	c. Air filter/drier replacing elements (replace twice a year)	
	d. Probe thermocouple repair	
	i. Call for quote	
	e. One Ethernet jack for SGI	\$168
	i. $\$14/\text{month} \times 12 = \168	
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2.	Varian Unity Inova-500 NMR	
	a. Liquid nitrogen	\$2700
	i. Similar to ARX-300 NMR	
	b. Liquid Helium	\$2040
	i. One 90 liter tank: $\$4.75 \times 90 = \427	
	ii. Delivery fee \$83	
	iii. $(\$427 + \$83) \times 4 = \$2040$	
	c. Air filter/drier replacing elements (replace twice a year)	
	d. Software upgrade (covered by warranty)	\$0
	e. Traveling expense for Varian NMR courses	
	f. Two Ethernet jack for two Sun Workstation	\$336
	i. $\$14/\text{month} \times 2 \times 12 = \336	
	g. One Ethernet jack for the network printer	\$168
	h. Toner cartage for printer (enough for the year)	\$0
	i. External CD-RW for data backup for PC	\$350(?)
	i. Cheapest way, $\sim \$0.30/100\text{MB}$ data	
	ii. Not needed if buy an offline PC with internal CD-RW	
3.	Professional meeting and workshop	
	a. One professional meeting (estimated)	\$1400
	i. ENC, ACS or Ptticon	