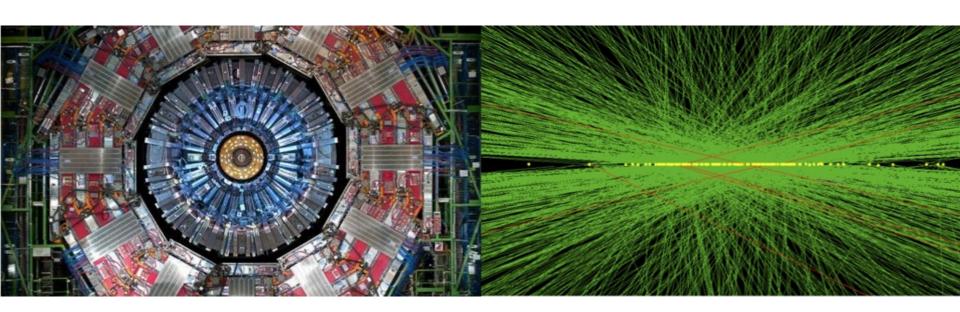


#### **US-MTD: ETL Resource Profiles**

Frank Chlebana (MTD Deputy L2 Manager) Fermilab

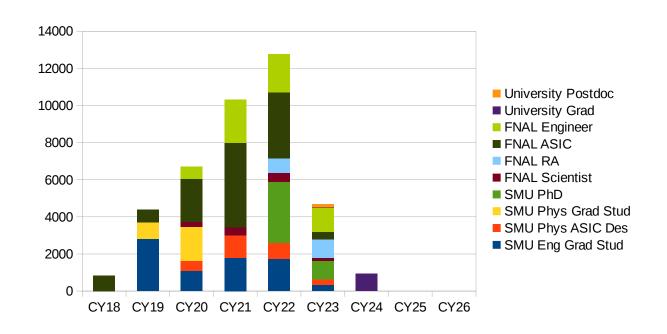
Jan 19, 2021





### **ETROC**

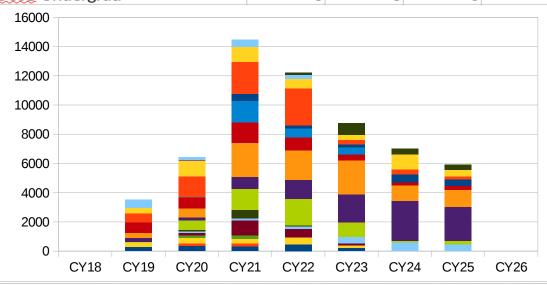
ETROC	CY18	CY19	CY20	CY21	CY22	CY23	CY24	CY25	CY26
SMU Eng Grad Stud	0	2816	1103	1780	1720	320	0	0	0
SMU Phys ASIC Des	0	0	516	1220	880	320	0	0	0
SMU Phys Grad Stud	0	887	1840	0	0	0	0	0	0
SMU PhD	0	0	0	0	3280	1000	0	0	0
FNAL Scientist	0	0	276	431	500	151	0	0	0
FNAL RA	0	0	0	0	760	1008	0	0	0
FNAL ASIC	837	693	2304	4568	3584	384	0	0	0
FNAL Engineer	0	0	650	2318	2049	1300	0	0	0
University Grad	0	0	0	0	0	40	940	0	0
University Postdoc	0	0	0	0	0	168	0	0	0

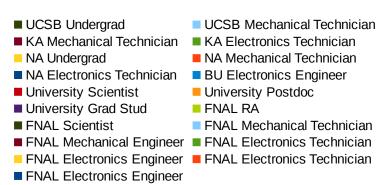




# ETL-Assembly

CY18 O	CY19	CY20	CY21	CY22	CY23	CY24	CY25	CY26
0					C120	CIZT	C123	C120
	294	366	299	456	200	0	0	0
0	0	161	240	16	0	0	0	0
0	16	206	1013	560	140	0	0	0
0	0	80	165	194	418	601	441	0
0	1	108	562	80	0	0	0	0
0	8	632	1448	1812	1020	90	270	0
0	300	240	800	1280	1910	2745	2310	0
0	324	610	2339	2032	2320	1052	1188	0
0	736	710	1398	880	400	238	242	0
0	0	0	1468	640	500	0	0	0
0	0	53	494	169	180	519	441	0
0	616	1417	2204	2540	340	339	221	0
0	360	1060	1001	640	330	1049	441	0
0	14	2	0	0	0	0	0	0
0	0	40	8	0	0	0	0	0
0	570	233	500	297	0	0	0	0
0	0	0	0	160	800	384	376	0
	0 0 0 0 0 0 0 0 0 0	0 16 0 0 0 1 0 1 0 8 0 300 0 324 0 736 0 0 0 0 0 616 0 360 0 14 0 0 0 570	0       16       206         0       0       80         0       1       108         0       8       632         0       300       240         0       324       610         0       736       710         0       0       0         0       0       53         0       616       1417         0       360       1060         0       14       2         0       0       40         0       570       233	0       16       206       1013         0       0       80       165         0       1       108       562         0       8       632       1448         0       300       240       800         0       324       610       2339         0       736       710       1398         0       0       0       1468         0       0       53       494         0       616       1417       2204         0       360       1060       1001         0       14       2       0         0       0       40       8         0       570       233       500	0       16       206       1013       560         0       0       80       165       194         0       1       108       562       80         0       8       632       1448       1812         0       300       240       800       1280         0       324       610       2339       2032         0       736       710       1398       880         0       0       0       1468       640         0       0       0       1468       640         0       0       53       494       169         0       616       1417       2204       2540         0       360       1060       1001       640         0       14       2       0       0         0       0       40       8       0         0       570       233       500       297	0         16         206         1013         560         140           0         0         80         165         194         418           0         1         108         562         80         0           0         8         632         1448         1812         1020           0         300         240         800         1280         1910           0         324         610         2339         2032         2320           0         736         710         1398         880         400           0         0         0         1468         640         500           0         0         0         1468         640         500           0         0         53         494         169         180           0         616         1417         2204         2540         340           0         360         1060         1001         640         330           0         14         2         0         0         0           0         0         40         8         0         0           0         570         233<	0         16         206         1013         560         140         0           0         0         80         165         194         418         601           0         1         108         562         80         0         0           0         8         632         1448         1812         1020         90           0         300         240         800         1280         1910         2745           0         324         610         2339         2032         2320         1052           0         736         710         1398         880         400         238           0         0         0         1468         640         500         0           0         0         53         494         169         180         519           0         616         1417         2204         2540         340         339           0         360         1060         1001         640         330         1049           0         14         2         0         0         0         0           0         0         40         8	0         16         206         1013         560         140         0         0           0         0         80         165         194         418         601         441           0         1         108         562         80         0         0         0           0         8         632         1448         1812         1020         90         270           0         300         240         800         1280         1910         2745         2310           0         324         610         2339         2032         2320         1052         1188           0         736         710         1398         880         400         238         242           0         0         0         1468         640         500         0         0           0         0         53         494         169         180         519         441           0         616         1417         2204         2540         340         339         221           0         360         1060         1001         640         330         1049         441 <t< td=""></t<>

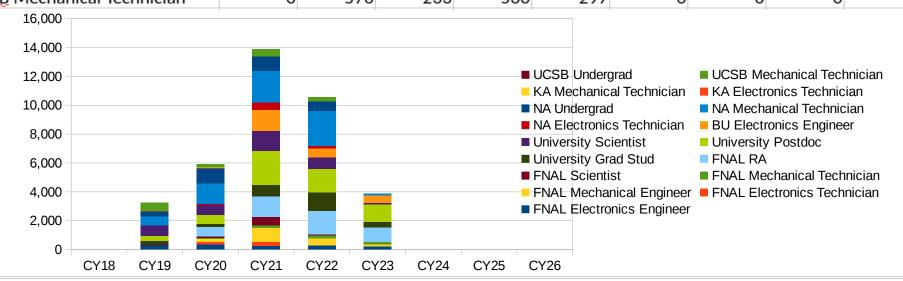






## ETL-Assembly - R&D

									-
ETL-Assembly (R&D)	CY18	CY19	CY20	CY21	CY22	CY23	CY24	CY25	CY26
FNAL Electronics Engineer	0	294	366	280	280	200	0	0	0
FNAL Electronics Technician	0	0	161	240	0	0	0	0	0
FNAL Mechanical Engineer	0	16	206	994	500	140	0	0	0
FNAL Mechanical Technician	0	0	80	165	194	200	0	0	0
FNAL Scientist	0	1	108	562	80	0	0	0	0
FNAL RA	0	8	632	1,448	1,632	980	0	0	0
University Grad Stud	0	300	240	800	1280	400	0	0	0
University Postdoc	0	324	610	2339	1632	1200	0	0	0
University Scientist	0	736	710	1398	800	120	0	0	0
BU Electronics Engineer	0	0	0	1468	600	500	0	0	0
NA Electronics Technician	0	0	53	494	169	0	0	0	0
NA Mechanical Technician	0	616	1417	2204	2446	138	0	0	0
NA Undergrad	0	360	1,060	1,001	640	0	0	0	0
KA Electronics Technician	0	14	2	0	0	0	0	0	0
KA Mechanical Technician	0	0	40	8	0	0	0	0	0
UCSB Mechanical Technician	0	570	233	500	297	0	0	0	0
16,000	-				-			-	+





# ETL-Assembly - Production

ETL-Assembly (Production)	CY18	CY19	CY20	CY21	CY22	CY23	CY24	CY25	CY26
FNAL Electronics Engineer	0	0	0	19	176	0	0	0	0
FNAL Electronics Technician	0	0	0	0	16	0	0	0	0
FNAL Mechanical Engineer	0	0	0	19	60	0	0	0	0
FNAL Mechanical Technician	0	0	0	0	0	218	601	441	0
FNAL RA	0	0	0	0	180	40	90	270	0
University Grad Stud	0	0	0	0	0	1510	2745	2310	0
University Postdoc	0	0	0	0	400	1120	1052	1188	0
University Scientist	0	0	0	0	80	280	238	242	0
BU Electronics Engineer	0	0	0	0	40	0	0	0	0
NA Electronics Technician	0	0	0	0	0	180	519	441	0
NA Mechanical Technician	0	0	0	0	94	202	339	221	0
NA Undergrad	0	0	0	0	0	330	1049	441	0
UCSB Undergrad	0	0	0	0	160	800	384	376	0

