



Defense Acquisition Workforce Key Information

Science & Technology Manager
As of FY17 (30 Sept 2017)





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Human Capital Fact Sheet										
			2008		FY2017Q4					
Defense Acquisition Workforce Science and Technology Manager	S&TM Civilian (Civ)	S&TM Military (Mil)	Total S&TM (Civ+Mil)	Defense Acquisition Workforce	S&TM Civilian (Civ)	S&TM Military (Mil)	Total S&TM (Civ+Mil)	Defense Acquisition Workforce		
Size & Composition										
Workforce Size	416	64	480	125,879	3,455	432	3,887	165,275		
Change in size from 2008	-	-	-	-	731%	575%	710%	31%		
Civilian/Military Composition	87%	13%	-	88% / 12%	89%	11%	-	91% / 9%		
Educational Attainment										
Bachelor's Degree or Higher	97%	94%	96%	77%	99%	95%	99%	84%		
Graduate Degree	66%	61%	66%	29%	81%	68%	79%	40%		
Certification										
Level I or Higher Achieved	55%	25%	51%	72%	87%	65%	85%	86%		
Level II or Higher Achieved	54%	19%	49%	61%	78%	37%	73%	73%		
Level III Achieved	48%	14%	43%	36%	55%	8%	50%	42%		
Position Certification Requirement Met or Exceeded	52%	17%	47%	58%	80%	46%	76%	76%		
Within 24 Months of Certification Requirement	37%	81%	43%	27%	18%	50%	21%	21%		
Does Not Meet Certification Requirement	12%	2%	10%	14%	2%	4%	2%	3%		
Planning Considerations										
% Baby Boomer / Traditional Gen.	75%	28%	69%	62%	36%	3%	32%	33%		
Average Age	50	40	49	46	46	32	44	45		
Workforce Life-Cycle Model (YRE)* % Future/Mid-Career/Senior	13/26/60(%)	-	-	20/23/57 (%)(Civ)	28/24/48(%)	-	-	26/26/48(%)		
Average Years of Service	18	14	17	17	16	8	15	15		
Retirement Eligible*	92(22%)	-	-	19,051(17%) (Civ)	615(18%)	-	-	25,405(17%)		
Retirement Eligible w/in 5 Years*	64(15%)	-	-	21,315(19%) (Civ)	619(18%)	-	-	25,576(17%)		
Total Gains/Losses*	123/147	-	-	14,245/15,030 (Civ)	401/351	-	-	14,944/11,347		

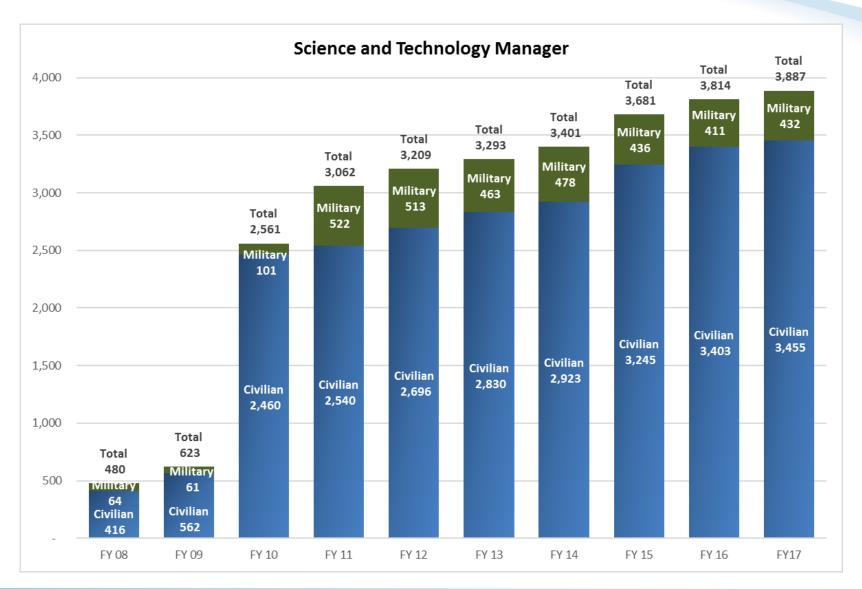
Source: The Human Capital Fact Sheet is based on end of FY2008 and FY2017Q4 data and was generated by OUSD(AT&L)/Human Capital Initiatives using the AT&L Workforce Data Mart.

^{*}Analysis support from RAND using FY2008 and FY2017Q4 DMDC data.



Total Historic Workforce

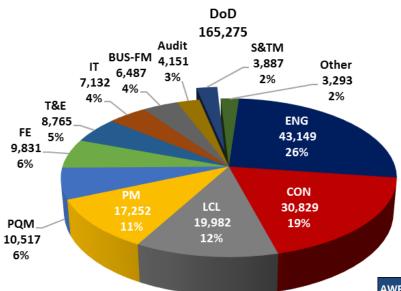






AWF by Component and Career Field





AWF Count by Career Category			Marine				%
FY17	Army	Navy	Corps	Air Force	4th Estate	Totals	Total
Auditing	-	-	-	-	4,151	4,151	2.5%
Business - CE	258	533	37	496	82	1,406	0.9%
Business - FM	1,714	1,978	171	2,094	530	6,487	3.9%
Contracting	7,978	5,906	537	8,445	7,963	30,829	18.7%
Engineering	9,096	22,297	341	9,276	2,139	43,149	26.1%
Facilities Engineering	3,581	5,541	30	591	88	9,831	5.9%
Information Technology	1,720	2,918	217	1,262	1,015	7,132	4.3%
Life Cycle Logistics	7,047	5,919	612	3,297	3,107	19,982	12.1%
Production, Quality and Man	1,387	3,330	40	421	5,339	10,517	6.4%
Program Management	3,313	5,450	763	5,885	1,841	17,252	10.4%
Property	49	70	-	16	266	401	0.2%
Purchasing	409	407	50	62	542	1,470	0.9%
S&T Manager	463	495	4	2,806	119	3,887	2.4%
Test and Evaluation	1,877	3,227	129	3,153	379	8,765	5.3%
Unknown/Other	8	1	-	1	6	16	0.01%
FY17 Totals (as of 9-30-2017)	38,900	58,072	2,931	37,805	27,567	165,27	
Component %	23.5%	35.1%	1.8%	22.9%	16.7%	105	,275



S&T Manager Workforce Historical Size by Agency FY08 - FY17



S&T Manager Defense Acq Workforce Agency	FY08	FY09	FY10	FY11	FY12	FY13	FY14	FY15	FY16	FY17
Navy	190	239	303	343	385	409	431	482	537	495
MARINE CORPS	1	4	8	6	3	6	3	2	2	4
ARMY	143	204	238	250	247	249	290	393	447	463
AIR FORCE	43	51	1,873	2,314	2,440	2,506	2,559	2,674	2,708	2,806
DCMA	6	11	11	9	11	8	6	4	4	3
DLA	1	1	2	6	4	6	6	9	5	4
MDA	1	2	1	4	4	2	2	4	2	2
DISA	-	-	-	-	-	1	1		-	-
DTRA	93	109	122	129	111	102	99	107	101	102
DHA	-	-	-	•	•	•	•	1	1	1
DAU	1	2	1	1	1	1	1	1	1	1
NRO	-	-	-	-	-	-	-	-	2	2
OSD	-	-	1	-	-	-	1	1	1	1
JCS	-	-	-	-	2	2	2	2	2	2
ASD	-	-	-	-	1	1	1	1	1	1
4th Estate Other	1	-	1	•	-	-	•	-	•	-
TOTAL	480	623	2,561	3,062	3,209	3,293	3,401	3,681	3,814	3,887

% Change Since FY08	% Change Since FY16
161%	-8%
300%	100%
224%	4%
6426%	4%
-50%	-25%
300%	-20%
100%	0%
10%	1%
	0%
0%	0%
	0%
	0%
	0%
	0%
\	1
710%	2%



S&T Manager Workforce Historical (Quarterly) Size by Agency FY16Q1 - FY17Q4



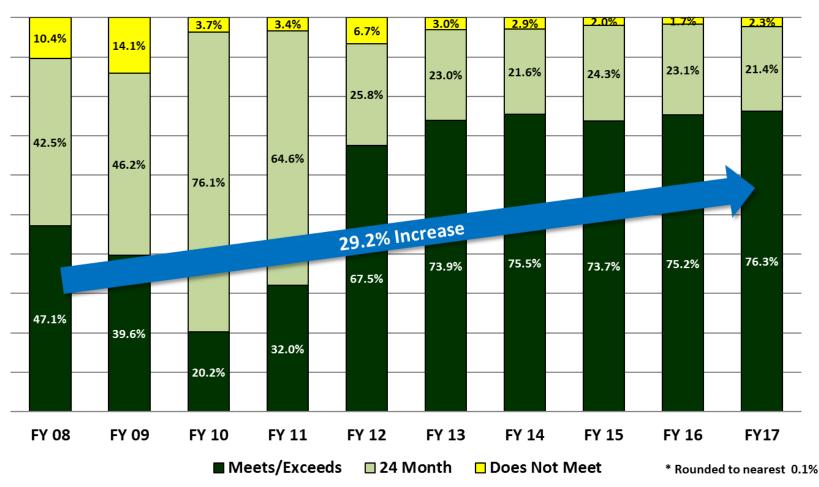
S&T Manager Defense Acq Workforce Agency	FY16Q1	FY16Q2	FY16Q3	FY16Q4	FY17Q1	FY17Q2	FY17Q3	FY17Q4
Navy	490	508	526	537	559	550	569	495
ARMY	423	435	442	447	451	459	459	463
AIR FORCE	2,537	2,681	2,680	2,708	2,591	2,762	2,767	2,806
MARINE CORPS	2	2	2	2	4	4	4	4
DCMA	4	4	4	4	5	5	5	3
DLA	8	8	5	5	5	6	6	4
MDA	4	2	2	2	2	2	2	2
DISA	1	1	1	-	-	-	-	-
DTRA	108	104	103	101	103	100	99	102
DHA	1	1	1	1	1	1	1	1
DAU	1	1	1	1	1	1	1	1
NRO	-	3	2	2	2	2	2	2
OSD	1	1	1	1	1	1	1	1
JCS	2	2	2	2	2	2	2	2
ASD	1	1	1	1	1	1	1	1
TOTAL	3,583	3,754	3,773	3,814	3,728	3,896	3,919	3,887

% Change Since
FY16Q
-8%
4%
4%
100%
-25%
-20%
0%
1%
0%
0%
0%
0%
0%
0%
↑
2%





S&T Manager

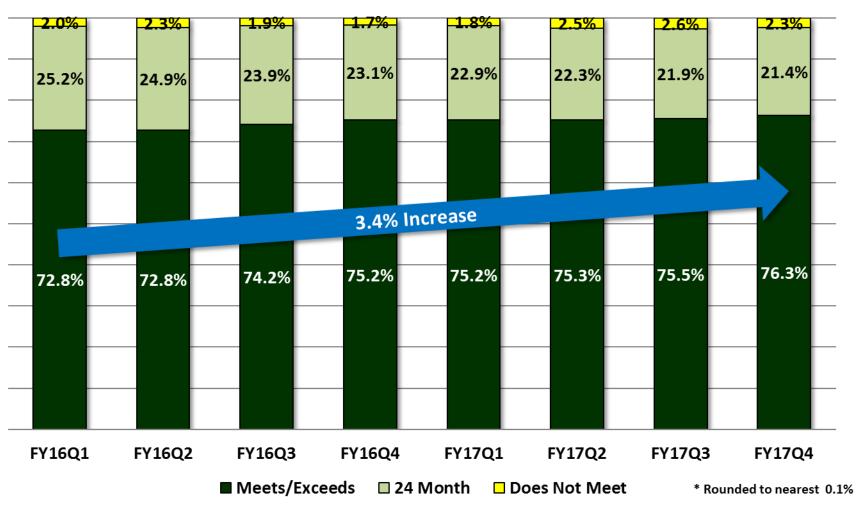




S&T Manager Historical (Quarterly) DAWIA Certification FY16Q1 - FY17Q4



S&T Manager

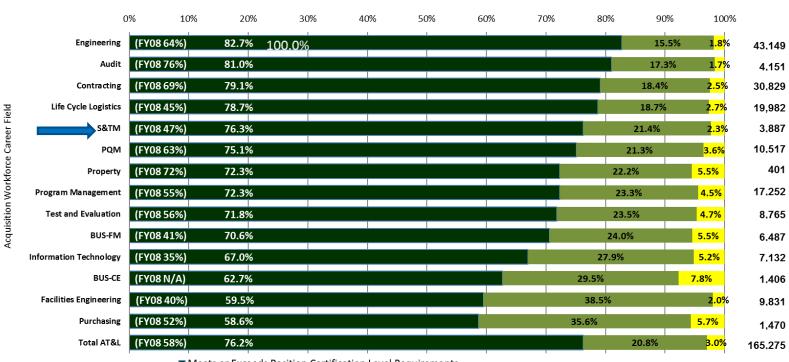




DAWIA Certification by Career Field



Certification Level "Meet/Exceed" Rates by Career Field AT&L (FY17Q4)



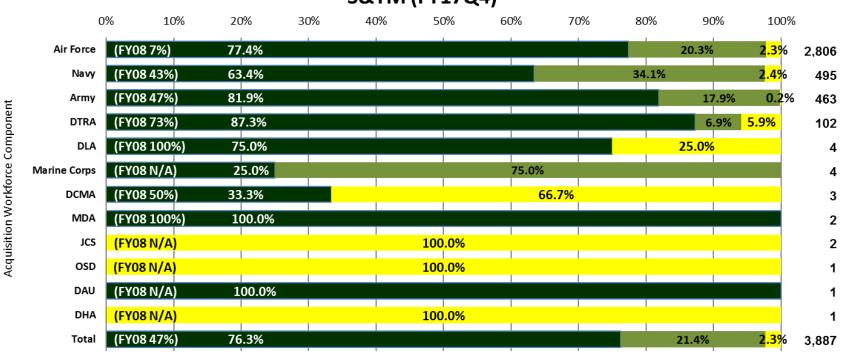
- Meets or Exceeds Position Certification Level Requirements
- Certification requirement not met and member within 24 month period
- Certification requirements not met and member beyond 24 month period



S&T Manager DAWIA Certification by Component



Certification Level "Meet/Exceed" Rates by Component S&TM (FY17Q4)



- Meets or Exceeds Position Certification Level Requirements
- Certification requirement not met and member within 24 month period
- Certification requirements not met and member beyond 24 month period



S&T Manager DAWIA Certification Matrix + Bench Strength



S&TM	▼ Ach	ieved Cer	tification I			
Required Certification Level	No Level Achieved	Level I	Level II	Level III	FY17 TOTAL	% Meets Certification Requirement
Level I	197	219	69	45	530	62.8%
Level II	272	188	728	330	1,518	69.7%
Level III	122	42	102	1,573	1,839	85.5%
Unspecified	-	-	-	-	-	
FY17 TOTAL	591	449	899	1,948	3,887	76.3%
	15.2%	11.6%	23.1%	50.1%		

No Level Achieved includes those within the 24 month grace period

Bench Strength									
# Meet or % Meets or									
Org	Exceeds	Exceeds*	Career Field Rank						
DAW	125,981	76.2%							
Army	31,265	80.4%							
Navy	44,158	76.1%							
Marine Cor	2,058	70.2%							
Air Force	27,102	71.7%							
4th Estate	21,398	77.6%							
S&TM	2,964	76.3%	5 of 14						

^{**} Based on population total without unspecified positions

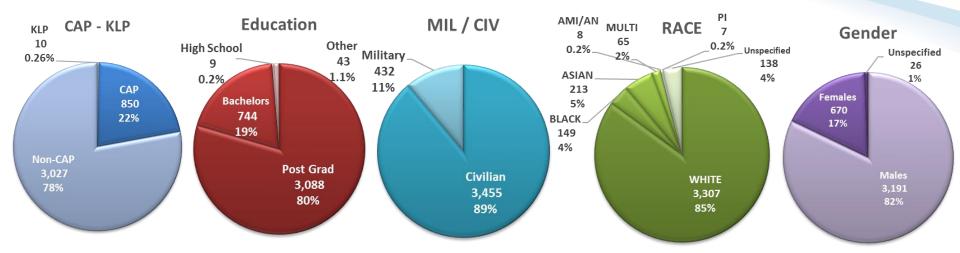
Cartification Donuiromant	Meets	Within 24	Does Not	DAW		
Certification Requirement	ivieets	Months	Meet	TOTAL		
Level I	333	192	5	530	13.6%	
Level II	1,058	420	40	1,518	39.1%	
Level III	1,573	220	46	1,839	47.3%	
Unspecified		-	•	•	0.0%	
S&TM TOTAL	2,964	832	91	3,887		= Compliance
	76.3%	21.4%	2.3%			= Exceeds Requirements
•				•		

^{*} NOTE: Rounded to nearest 0.1%



S&T Manager Demographics





Occupied Position Type	S&	TM	Entire DAW		
Key Leadership Positions (KLPs)	10	0.3%	1,099	0.7%	
Critical Acquisition Positions (CAPs) *	850	21.9%	16,317	9.9%	
Non-CAP Positions	3,027	77.9%	147,679	89.4%	
Unknown	-	0.0%	180	0.1%	
TOTAL	3,887		165,275		

^{* =} Number of CAPs, excluding KLPs (no double counts)

Highest Level of Education	S8	TM	Entire	DAW
Post Grad	3,088	79.4%	66,150	40.0%
Bachelors	744	19.1%	72,902	44.1%
Some College	3	0.1%	11,798	7.1%
High School	9	0.2%	12,412	7.5%
Other	43	1.1%	2,013	1.2%
TOTAL	3,887		165,275	

Military / Civilian	S&TM		Entire DAW	
Civilian	3,455	88.9%	149,782	90.6%
Military	432	11.1%	15,493	9.4%
TOTAL	3,887		165,275	

Race	S&TM		Entire DAW	
WHITE	3,307	85.1%	121,814	1109.3%
BLACK	149	3.8%	19,900	181.2%
ASIAN	213	5.5%	10,981	100.0%
MULTI	65	1.7%	4,110	37.4%
AMI/AN	8	0.2%	947	8.6%
PI	7	0.2%	823	7.5%
Unspecified	138	3.6%	6,700	61.0%
TOTAL	3,887		165,275	

Gender	S&TM		Entire DAW	
Males	3,191	82.1%	116,087	70.2%
Females	670	17.2%	47,702	28.9%
Unspecified	26	0.7%	1,486	0.9%
TOTAL	3,887		165,275	



S&T Manager Size by Occupational Series



Civilian Occupational Series	S&TM	
0855 - Engineer, Electronics	740	21%
0801 - Engineer, General	460	13%
0861 - Engineer, Aerospace	365	11%
0806 - Engineer, Materials	216	6%
0830 - Engineer, Mechanical	215	6%
1550 - Computer Scientist	191	6%
1310 - Physicist	187	5%
1301 - Physical Scientist, General	170	5%
0854 - Engineer, Computers	124	4%
1320 - Chemist	117	3%
0180 - Psychologist	107	3%
0850 - Engineer, Electrical	87	3%
0401 - Biologist	80	2%
1520 - Mathematician	50	1%
0601 - Health Scientist	50	1%
0858 - Engineer, Biomedical	33	1%
Other	263	8%
TOTAL CIVILIAN	3,455	Civilians



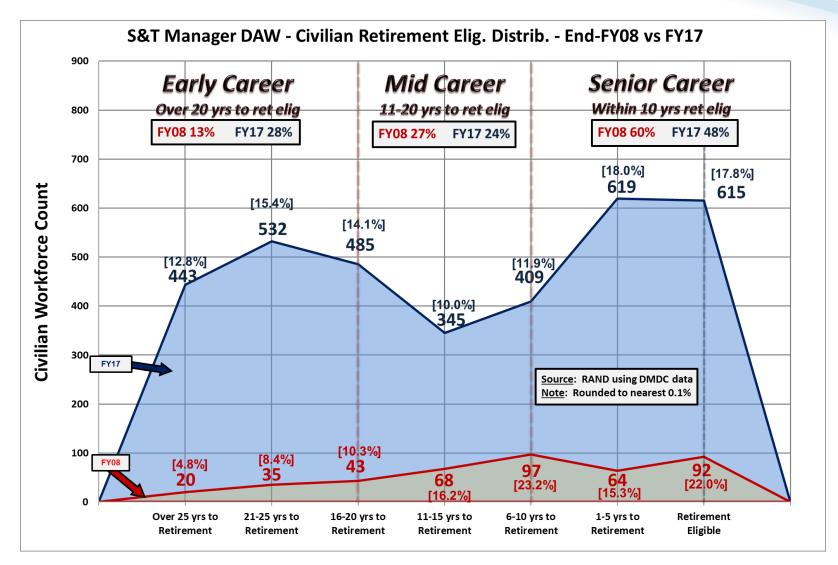


RAND NDRI Forces and Resources Policy Center Data Retirement / Loss Slides



S&T Manager Civilian Retirement Eligibility Distribution — FY08 / FY17

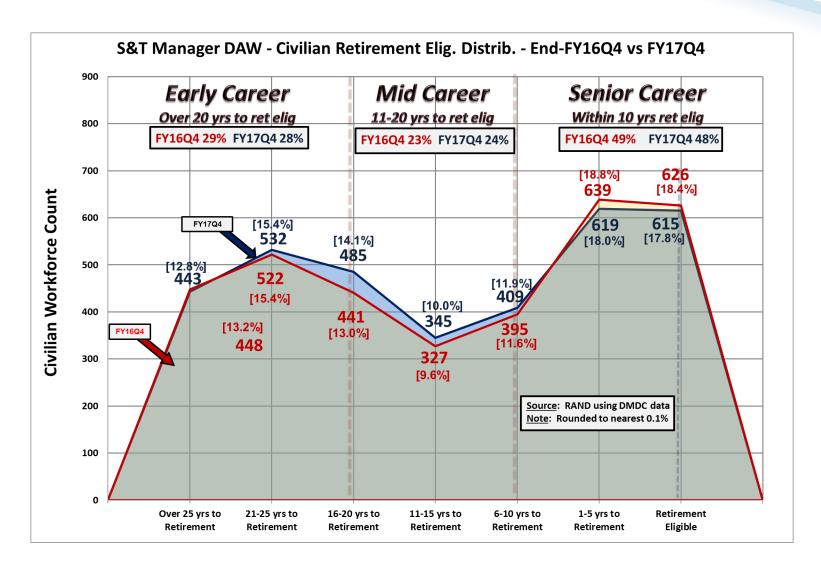






S&T Manager Civilian Retirement Eligibility Distribution — FY16Q4 / FY17Q4





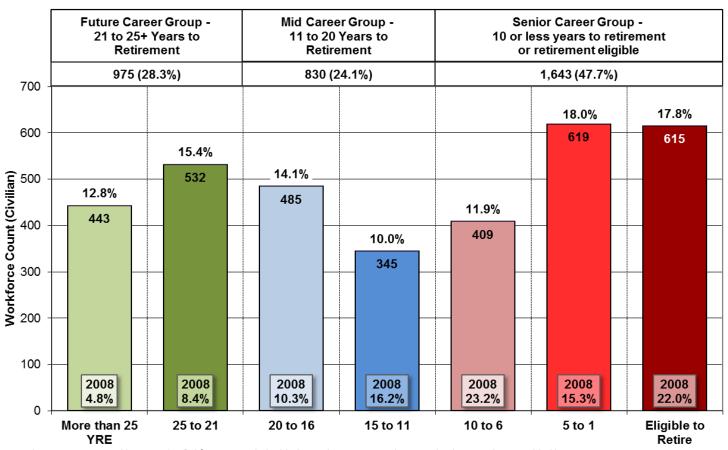


S&T Manager Workforce Lifecycle Model by YRE



Defense Acquisition Workforce Lifecycle Model (WLM)

by Years to Retirement Eligibility (YRE) - Civilian (FY2017Q4) - Science and Technology Manager



Source: Chart was generated by OUSD(AT&L)/Human Capital Initiatives using FY2008 and FY2017 (Q4) DMDC data provided by RAND.



S&T Manager Gains/Losses – New Hires Internal/External, Administrative



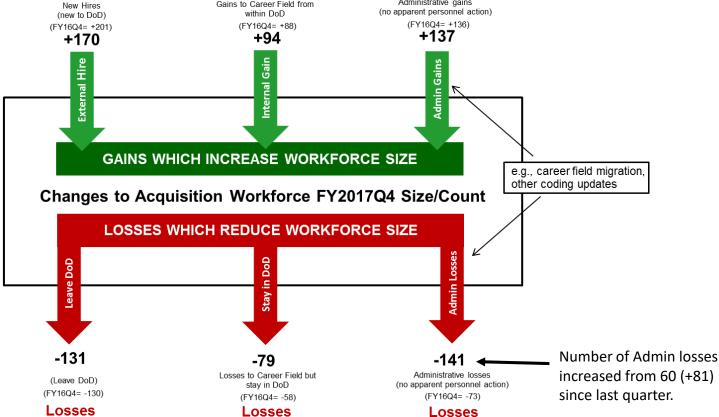
Defense Acquisition Workforce (Civilian) (FY2017Q4) - Science and Technology

Gains and Losses by External to DoD, Internal to DoD, and Administrative Categories

Gains

New Hires Gains to Career Field from within DoD

Gains to Career Field from (no apparent personnel action)

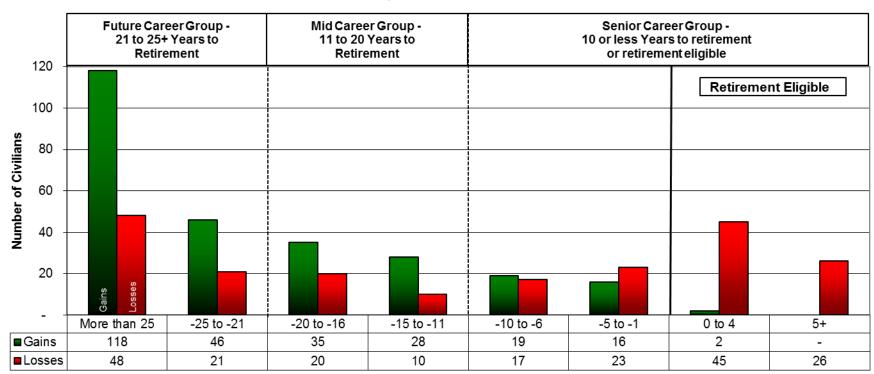






Defense Acquisition Workforce (Civilian) - Science and Technology Manager

Workforce Lifecycle FY2017Q4 Gains & Losses*



Career Lifecyle by Years to Retirement Eligibilty

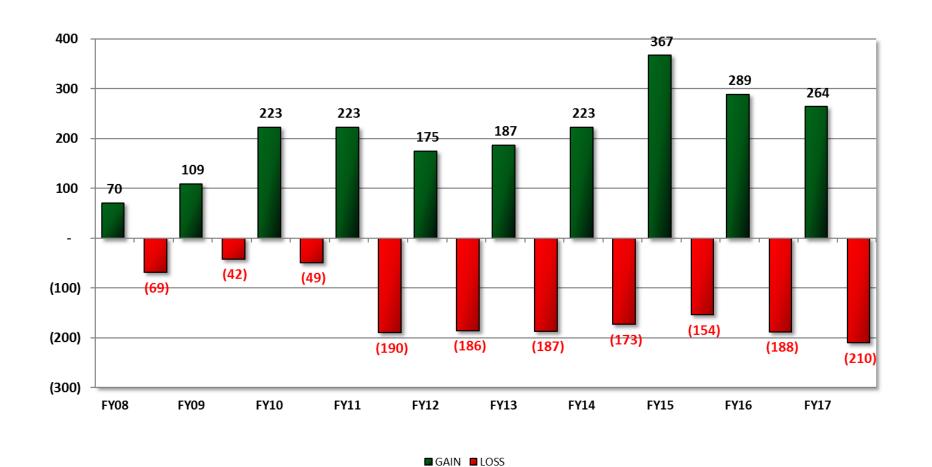
Source: RAND NDRI Forces and Resources Policy Center analysis using DMDC data (FY2017Q4 and Previous FY Data) *Does not include administrative gains and losses

As of 30 Sep 2017





Historical Gains and Losses FY08 - FY17



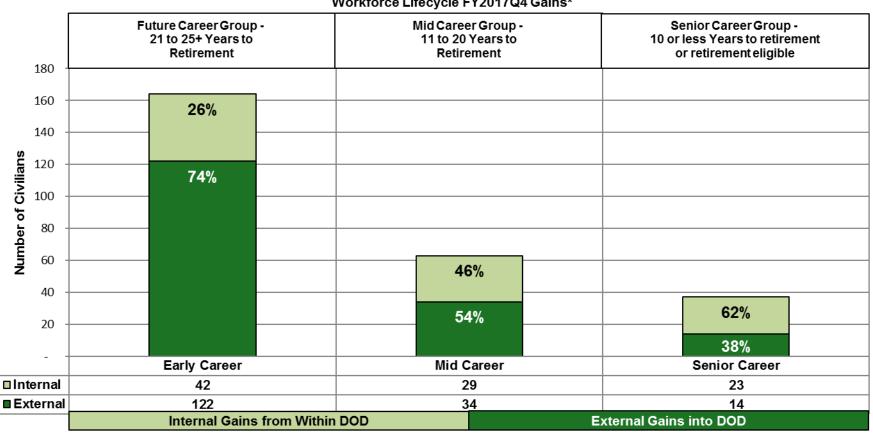
As of 30 Sep 2017





Defense Acquisition Workforce (Civilian) - Science and Technology Manager

Workforce Lifecycle FY2017Q4 Gains*



^{*}Does not include administrative gains

Source: RAND NDRI Forces and Resources Policy Center analysis using DMDC data (FY2017Q4 and Previous FY Data)

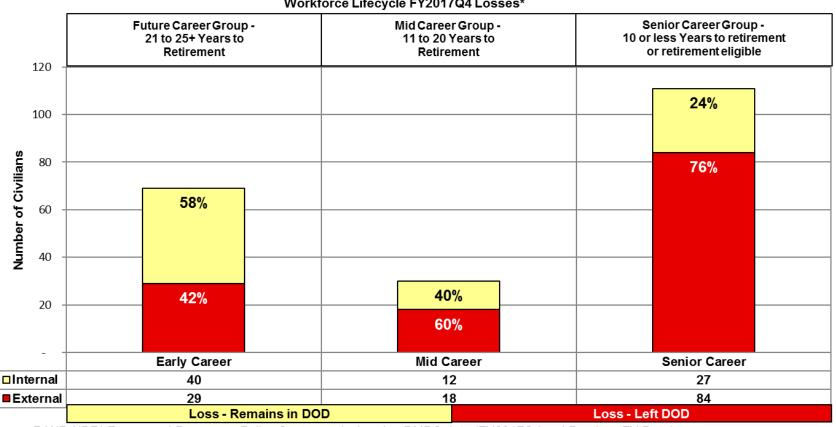
As of 30 Sep 2017





Defense Acquisition Workforce (Civilian) - Science and Technology Manager

Workforce Lifecycle FY2017Q4 Losses*



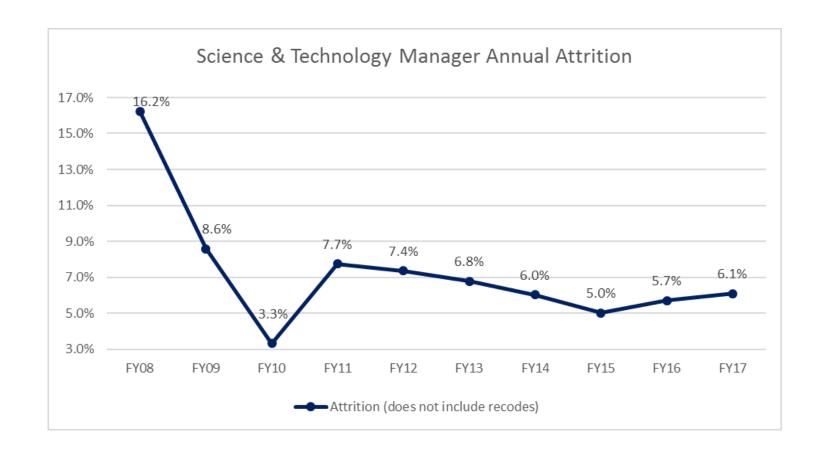
Source: RAND NDRI Forces and Resources Policy Center analysis using DMDC data (FY2017Q4 and Previous FY Data)

*Does not include administrative losses



Annual Attrition Rates



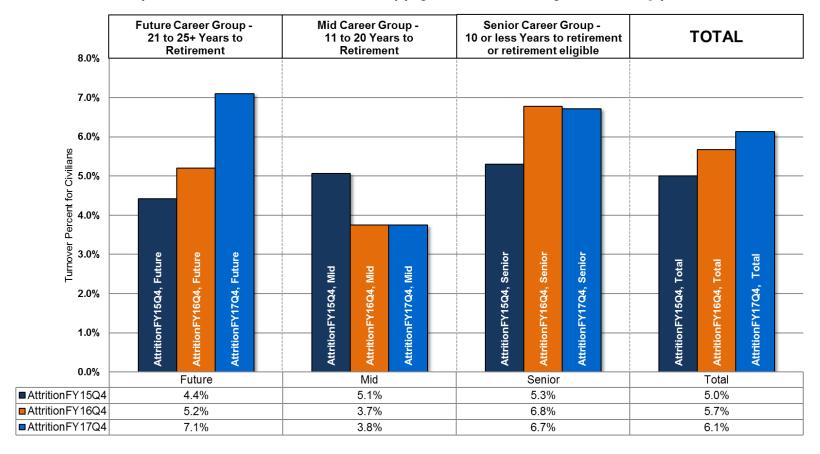




S&T Manager Attrition Rates by Career Group



Defense Acquisition Workforce Attrition - Science and Technology Manager (Civilian) (FY15Q4, FY16Q4, FY17Q4)(by Career Lifecycle Group)

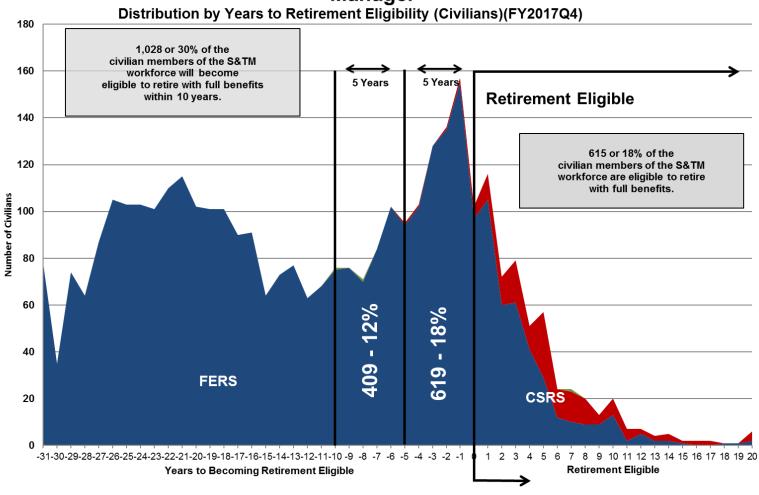




S&T Manager Civilian Distribution by Years to Retirement Eligibility



Defense Acquisition Workforce - Science and Technology Manager







END