GLOBAL ELECTRONICS

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SILICON VALLEY'S WORKFORCE REMAINS SEGREGATED

New data shows that the high-tech workforce of Silicon Valley workforce tends to be segregated by race and gender, but the dominance of white men has slipped slightly over the past several years. White males continue to dominate top level positions, and minority women are concentrated in low-level production jobs. Asians and Asian-Americans now make up about a fifth of the high-tech workforce, compared to one tenth in 1980.

Every year the federal Iqual Employment Opportunity Commission (EEGC) collects detailed employment information from large employers across the country. Normally, however, it does not publish race-and-gender-by-jcb-category data by industry. Consequently, regional totals for professionals include nurses and teachers as well as engineers and programmers showing a more balanced gender employment pattern than is apparent in high tech.

In 1982, we obtained detailed 1980 cross-tabs for high-tech employment centers while preparing a report for the U.S. Commission on Civil Rights. This year we managed to receive similar data covering 1988 employment in Silicon Valley.

With additional resources, we hope to later publish a more comprehensive data set and analysis, considering the reasons behind workforce segregation. Now, however, by exclusively devoting this issue of Global Electronics to the workforce data, we feel we can most quickly disseminate our findings. The tables on page 2 sum EEOC-collected reports for electronics and highest services, including software firms, while the tables on page 3 cover electronics manufacturing alone. The page 4 table is roughly comparable to the page 2 data set. All information is for Santa Clara County, so employment in the Valley's outskirts, such as Fremont, is excluded.

This is the best available information about the make-up of the Silicon Valley workforce. However, since the EEOC data is confined to employers with 100 or more workers, plus government contractors with at least 50 workers, the totals are inaccurate. For example, the electronics sectors that reported a total of 122,000 to EEOC actually employed 195,000 in 1988.

The EEOC data confirms what many Silicon Valley observers already know. White men

constitute about two-thirds of management and 56% of the professional workforce. Still, their preponderance has slipped since 1980, when they accounted for 77% and 70% respectively. White women and Asians have made up the difference.

Among operatives—semiskilled production workers—the white share has fallen from half to 28%. Asians now dominate the production workforce, with 44% of the operatives. Surprisingly, Asian men now outnumber white women in this category, leading the growth in male operatives.

Unfortunately, the statistics do not distinguish among Asian ethnic groups. From direct observation, however, it appears that ethnic Japanese, Chinese, and Indians appear to prevail in high level positions, while Filipinos and Vietnamese make up the greatest number of Asian production workers.

White women still dominate the secretarial corp. In fact, nearly a third of all white women in the industry do office work.

The EEOC data also shows a whitening of collars. The reported totals of semiskilled workers and skilled workers (crafts) actually declined slightly within Santa Clara County—though it is likely that adding counts from small establishments and new production plants in adjacent counties would turn that into a slight increase. Meanwhile, the number of professionals jumped from 39,000 in 1980 to nearly 70,000 in 1988, and the ranks of managers and officials rose as significantly from 19,000 to 29,000.

Like most other industrial statistics, the RECAL series has its shortcomings. It relies poon employers to categorize jobs—deciding who is a technicians and who is an operative, for example. And companies also may influence the industry under which they are listed. Lockheed, the largest manufacturer in Silicon Valley, still appears to call itself a miscellaneous business service because it does research and development. And that industry, miscellaneous business services, includes more than high tech, pumping up white collar totals for the Valley. But most business services in Santa Clara County—including temporary employment agencies—do most of their work in high tech. So, our "high-tech" category includes both computer and miscellaneous business services.

SILICON VALLEY HIGH-TECH EMPLOYMENT BY RACE AND GENDER, 1988

	: Total	Officials F & Managers		Technicians	Sales	Office & Clerical	Craft	Operatives	Laborers	Service
All Men Women	192,665 120,597 72,068	23,045	69,645 50,338 19,307	21,257 16,319 4,938	4,472 2,922 1,550	25,335 5,213 20,122	8,290 5,638 2,652	12,091	1,528 978 550	5,271 4,053 1,218
White Men Women	127,554 83,506 44,048	24,562 19,438	53,557 39,049 14,508	12,450 9,815 2,635	3,905 2,612 1,293	17,286 3,043 14,243	4,641 3,552 1,089		413 315 98	2,943 2,297 646
Minority Men	65,111 37,691	4,750 3,607	16,088 11,289 4,709	8,807 6,504 2,303	567 310 257	8,049 2,170 5,879	3,649 2,086	19,758 8,706	1,115 663	2,328 1,756
Black	8,297	662	1,880	987	118	1,831	423	1,605	86	705
Men Women		199	1,193 687	762 225	70 48	518 1,313	255 168	915	70 □ 16	572 133
Hispanic Men	18,127 9,041	A STATE OF THE PARTY OF THE PAR	2,642 1,727	2,197 1,536	214 101	3,327 853	1,446 927		234 234	836 573
Women Asian	9,086 37,734		915 11,345	661 5,502	113 223	2,474 2,724	519 1,727	The state of the s	149 640	263 718
Men Women	22,924	2,247	8,233 3,112	4,119 1,383	134 89	756 1,968	866 861		355 285	555 163
Amer.ind Men	4.2.17.00	127	221 136	121 87	12 5	167 43	53 38	177	6 4	- 69 56
Women	420	36	'85	34	. 7	124	15		∵2∙	- 13

PERCENTAGE DISTRIBUTION

aket mod		Micials Pi Manage s	ofessional	Technicians	Sales	Office & - Clerical	Cmft :	Operatives	Laborers	Service
AL .	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
Men	62.6	78.€	72.3	76.8	65.3	20.6	68.0	and the second second second	64.0	76.9
Women	37.4	21.4	27.7	23.2	34.7	79.4	32.0	56.1.	36.0	23.1
***********	6 6.2- -	83.8 *	76.9 ~	 58.6- -	87.3	68.2	56.0	The second secon	27.0	55.8
Men	43.3	66.3	56.1	46.2	58.4	12.0	42.8		20.6	43.6
* Women	22.9	17.5	20,8	12.4	28.9	56.2	13.1	16.0	6.4	12.3
Minority	33.8	16.2	23,1	41.4	12.7	31.8	44.0		73.0	44.2
tylen :	19.3	12.3	16.2	30.6	6.9	8.6	25.2		43.4	33.3
Women	14.5	3.9	6.9 -	10.8	5.7	23.2	18.9	40.1	29.6	10.9
- Black	4.3	2.3	2.7	4.6	2.6	7.2	5.1		5,6	13.4
Men	2.4	1.6	1.7	3.6	1.6	2,0	3.1	2.5	4.6	The second secon
Women	1.9	0.7	1.0	1.1	1.1	5.2	2.0	AND THE RESERVE OF THE PARTY OF	1.0	2.5
Hispanic	9.4	4.1	3.8	10.3	4.8	13,1	17.4		25.1	15.9
Men Women	4.7 4.7	2.7 1.3	2.5 1.3	7.2 3.1	2.3	3. 4 9.8	11.2 6.3		15.3 9.8	10.9
Asian	19.6	9.4	16.3	25.9	2.5 5.0	7.6 10.8	0.5 20.8		41.9	5.0 13.6
Men	11.9	7.7	11.8	19.4	3.0	3.0	10.4		23.2	10.5
Women	7.7	1.8	4.5	6.5	2.0	7.8	10.4		18.7	3.1
· · · Amer. Indi	and the second s	0.4	0.3	0.6	0.3	0.7	0.6		0.4	. 1.3
Meh	0.3	0.3	0.2	0.4	0.1	0.2	0.5		0.3	1,1
Women	0.2	0.1	0.1	0.2	0.2	0.5	0.2	0.4	0.1	0.2

SILICON VALLEY ELECTRONICS EMPLOYMENT BY RACE AND GENDER, 1985

	Total	Officials Manager		Technicians	Sales	Office & Clerical	Craft	Operatives -	Laborers	Service :
	- 100 C	20.521	39,739	16,135	2,367	15,295	5,499	20,782	883	773
All	121,994 74,653	16,163		12,402	1,716	3,121	3,434		505	643
Men Women	47,341	4,358	100 585 5 5 5 6 6 6 6 6 6 6	3,733	651	12,174	2,065	the second secon	. 378	130 -
		17,041	29,760	9.444	2,118	10.539	2,852	5.854	118	:::331
White	78,057	13,543	THE REPORT OF THE PARTY OF THE	7.521	1,555	1,829	2,041		76	279
Men Women	50,359 27,698	3,498	The second secon	1,923	563	8,710	811		42	- 52
	43.937	27.5		6.691	249	4.756	2.647	14,928	765	-442
Minority	24,294	The second secon		4,881	161	1.292	1,393		429	364
Men Women	19,643			1,810	88	3,464	1,254	200	336	78
**Black	5,004	of the abelian tell beater	70.70	721	56	965	303	1,237	48	. 81
Men	2,675	· · · · · · · · · · · · · · · · · · ·		568	36	265	172	481	36	- 62
Wome	电工 医海绵性外侧侧偏角小侧 经存款	### 11 km 14 ki 21 km 11 44 &		153	20		131	7.56	. 12	.j. 19
			Two to the character and the	1,717	72	2.005	1.03€	4,610	187	. 235
Hispanic	5,869			1.200	44	536	589	The second secon	99.	193
Men Women	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	200	and the second s	517	28		444		88	i 42
	26,016		The second secon	4.149	115		1,280		The second secon	. 117
Asian	15,414	the second of the second of the second		3.040	78		61		The second second	103
Men	Contract of the Contract of th			1.109	37		665		The second secon	14
Women	The second secon		Control of the Contro	104	6		3/			. 9
	dian 611			73	3		$\tilde{2}$		And the second second second second	- 6
Men Wome	336 n 275		The second second second	31	3	节	ī			

PERCENTAGE DISTRIBUTION

	Total	Officials Pro	ofessional.	Technicians	Sales	Office & Clerical	Ciat: 0	peratives :	Laborers	Service
All : : : ''	100.0		100.0	100.0	100.0	100.0	100:0	100.0	100.0	100.0
Men	61.2	78.8	71.2	76.9	72.5	20.4	62.4	40.3	57.2	83.2
Women	38.8	21.2	28.8	23.1	27.5	79.6	37.6	59.7	42.8	16.8
While	64.0	83.0	74.9	- 58.5±	89.5	68.9	51.9	28.2,	13.4	42.8
Men	41.3		53.5	46.6	65.7	12.0	37.1	10.8	8.6	
Women	22.7		21.4	11.9	23.8	56.9	14.7	17.4	4.8	6.7
Minority	36.0		25.1	41.5	10.5	31.1	48.1	71.8	86.6	57.2
Men .	19.9	The state of the s	17.7	30.3	6.8	8.4	25.3	29.4	48.6	47.1
Women	16.1		7.4	11.2	3.7	22.6	22.8	42.4	38.1	10.1
	4.1		2.8	4.5	2.4	6.3	5.5	6.0	5.4	10.5
Black Men	2.2	THE PART OF THE PARTY OF THE PA	1.8	3.5	1.5	1.7	3,1	2.3	4.1	8.0
Women	2.2 1.9	TOTAL SECTION AND AND AND AND ADDRESS.	1.0	0.9	0.8	4.6	2.4	3.6	1.4	2.5
Hispanic	10.1		3.9	10.6	3.0	Security of the security of th	18.7	22.2	21.2	30.4
Men	4.8	The second of th	2.5	7.4	1.9		10.7	7.8	11.2	25.0
Women	5.3		1.4	3.2	1.2	9.6	8.0	14.4	10.0	
Asian	21.3		18.1	25.7	4.9		23.3	. 43.1	59.7	15.1
Men	12.6	The second secon	13.2	18.8	3.3	3.0	11,1	19.1.	33.1	13.3
Women	8.7	1.8	4.9	6.9	1.6	8.0	12.2	24.0	26.6	1.8
- Amer. Indi			0.3	0.6	0.3		0.6	0.6	0.3	1.2
Men	0.3	Service Commence of the Commen	0.2	0.5	0.1	0.2	0.4	0.3	0.2	0.8 0.4
Women	0.2	0.2	0.1	0.2	0.1	0.5	0.2	0.#	0.1	y. U.T

SILICON VALLEY HIGH-TECH EMPLOYMENT BY RACE AND GENDER, 1980.

	Cotal	Officials Pro & Managers	fessional	Technicians	Sales	Office & Clerical	Craft ()perativės	Laborers	Service
		Section of the second	39,051	19.676	2,100	20,924	10,098	28,592	1,798	3,273
All (Total #) 14 Men	60.9		82.7	75.4	68.4	19.6	- 62.1	31.9 68.1	42.9 57.1	84.7 15.3
Women	39.1	14.1	17.3	24.6	31.6	80.4	37.9		44.5	60.8
White	73.0	88.4	84.2	71.9	91.4	76.7	66.8 45.0	49.5 15.8	Co. 10 Co	50.4
Men :	47.1	the the second contact of the con-	70.0	55.3	64.1 27.3	13.1 63.6	21.8	33.6	22.1	10.5
Women	25.9		14.2	16.7	8.7	23.3	33.2	50.5	55.6	39.2
Minority	27.1	11.7	15.8	28.0	0./ 3-14-3	Company of the Compan				the second of th
Women	13.3	2.6	3.1	7.9	4.4		16.1	34.4	35.0	4.9
	4.9	AND THE SHE	2.2	4.1	2.1	6.3	6.0	8.6		14.2
Black Men-	2.		1.7	3.1	1.3		3.1	3.5	3.8 4.2	12.3 2.0
Women	2.1	0.5	0.5	1.0	0.9	De la company of the later of t	2.8 15.4	5.1 22.9		17.6
Hispanic	10.0	Control of the contro	3.2	9.6	3.0 1.4	the comment of the same of the	8.1	and the second s	Live the contract that the company of	15.3
Men	4.0		2.4 0.7	6.2 - 3.4 -	1.7		7.3			2.3
Women Asian	6.0 10.1	the control of the co	10.0	13.9	3.0	6.2	11,2	And the second s	and the state of t	6.8
Men	6.	And the same of th	8.3	10.5	1.4		5,4			6.4 0.4
Women	4.		1.8	3.4	1.6		5.8 0.7			0.5 0.5
Amer, Indi			0.4	0.4 0.3	0.4 0.2		0.5			Control of the Contro
Men Women	0. 0.		0:3 0:1		0.2		0.2	the second of th		2007

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edited by Lenny Siegel

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