ANALYSIS OF HIGH-TECH EMPLOYMENT PATTERNS IN EIGHT LEADING U.S. HIGH-TECH CENTERS—1990

by Lenny Siegel Pacific Studies Center September, 1992

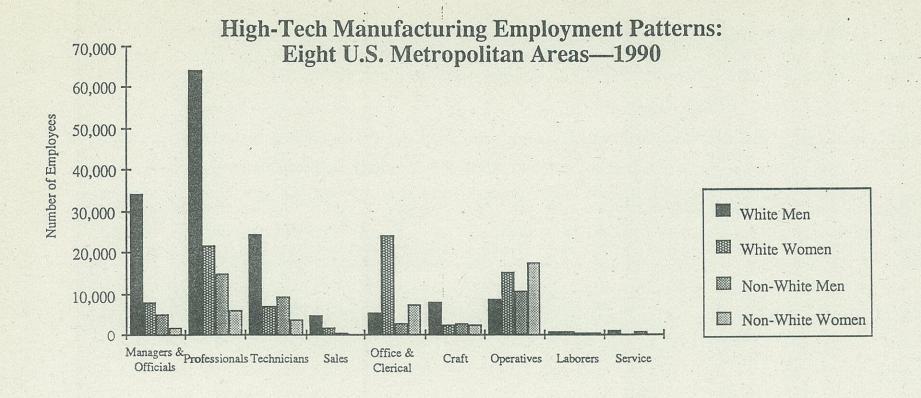
New data confirms that the U.S. electronics manufacturing workforce remains sharply stratified, with white men in positions of power and high income, and women and non-whites holding down the low-level positions, such as operatives—that is, semi-skilled production workers. The attached table and chart summarize the race and gender employment patterns for 644 facilities in six high-tech industries, as reported to the U.S. Equal Employment Opportunity Commission in eight U.S. metropolitan areas.

White men make up 69.6% of the officials and managers and 60.0% of the professionals, but they only account for 16.9% of the operatives. Women of all races make up 79.1% of the clerical workers and 63.0% of the operatives, yet they comprise only 38.0% of the high-tech manufacturing workforce. Non-white women account for 33.7% of the operatives, although they only represent 12.5% of the workforce at the same companies. Non-whites (men and women) account for 53.9% of the operatives.

Non-white men account for 13.9% of the professionals in this sample, but that already low number is even less significant in social terms. More than half of those non-white male professionals (52.6%) are Asians or Asian-Americans in Silicon Valley. While Southeast Asian and Korean production workers in Silicon Valley tend to be treated like other non-white ethnic groups, professionals of Japanese, Chinese, and South Asian (Indian) descent tend to be treated as "honorary whites."

The data illustrates what activists and other observers already know. When high-tech comes to a community, it doesn't bring in good jobs for the people already living there. It imports highly trained workers and provide low-pay, low-status employment to the residents.

Many factors contribute to the segregation of the high-tech workforce by race and gender. Education plays an important role, since most of the high-level employees have one or more college degrees. However, even among wage workers companies often practice race and gender discrimination. While employers do not openly admit such discrimination in the U.S., where it is illegal, they overtly discriminate when hiring at their overseas plants.



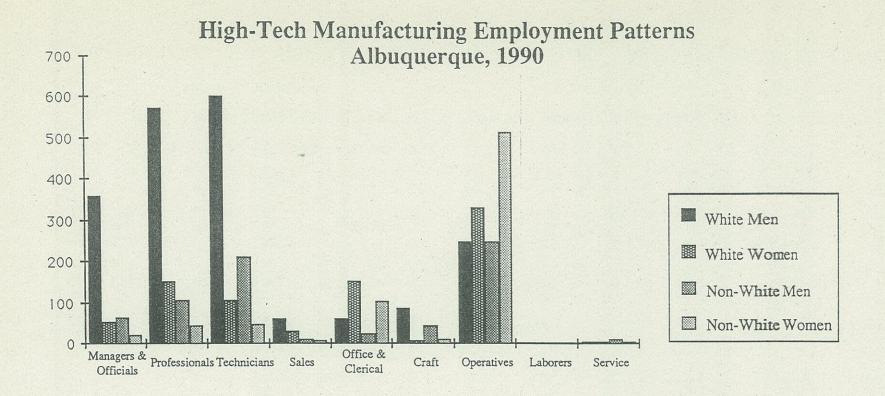
This chart was prepared from U.S. Equal Employment Opportunity Commission data for 1990 for the following metropolitan areas: Albuquerque, New Mexico; Austin, Texas; Boston, Massachusetts; Colorado Springs, Colorado; Dallas, Texas; Phoenix, Arizona; Portland, Oregon; and Silicon Valley (San Jose), California. Industries covered include: Office and Computing Machines, Communications Equipment, Electronic Components and Accessories, Engineering and Scientific Instruments, Measuring and Controlling Devices, and Optical Instruments & Lenses.

HIGH-TECH MANUFACTURING EMPLOYMENT IN SILICON VALLEY, CALIFORNIA—1990

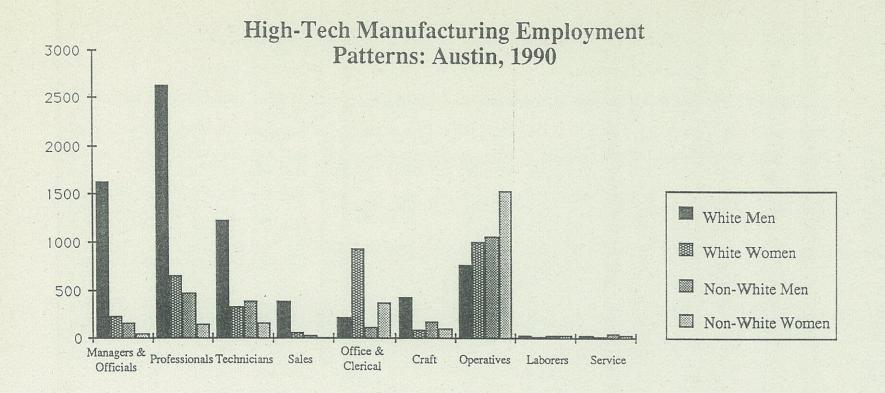
Population				Number of Employees					% Pop						Percentage of Job Category								
* *	Topulation	Total	Mgrs	Profs		Sales	Clerks	Craft	Oper	Lab	Serv		Total	Mgrs	Profs	Techs	Sales	Clerks	Craft	Oper	Lab	Serv	
ALL	1,497,577	136,909	24,737	51;468	16,078	2,580	16,598	5,278	18,951	374	845	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0			
Men Women	759,503 738,074	84,699 52,210	19,158 5,579	36,373 15,095	12,191 3,887	1,911 669	3,474 13,124	3,264 2,014	7,452 11,499	188 186	688 157	50.7 49.3	61.9 38.1	77.4 22.6	70.7 29.3	75.8 24.2	74.1 25.9	20.9 79.1		39.3	50.3	81.4	
Whites Men Women	869,874	85,739 55,820 29,919	19,902 15,525 4,377	36,747 26,198 10,549	8,460 6,638 1,822	2,297 1,722 575	10,688 1,773 8,915	2,377 1,754 623	4,817 1,841 2,976	69 50 19	382 319 63	58.1	62.6 40.8 21.9	80.5 62.8 17.7	71.4 50.9 20.5	52.6 41.3 11.3	89.0 66.7 22.3	64.4 10.7 53.7	45.0 33.2 11.8	25.4 9.7 15.7	18.4 13.4 5.1	45.2 37.8 7.5	
Non-Whites Men Women		51,170 28,879 22,291	4,835 3,633 1,202	14,721 10,175 4,546	7,618 5,553 2,065	283 189 94	5,910 1,701 4,209	2,901 1,510 1,391	14,134 5,611 8,523	305 138 167	463 369 94		37.4 21.1 16.3	19.5 14.7 4.9	28.6 19.8 8.8	47.4 34.5 12.8	11.0 7.3 3.6	35.6 10.2 25.4		74.6 29.6 45.0	81.6 36.9 44.7	54.8 43.7 11.1	
African-Am Men Women	er. 52,583	5,495 2,938 2,557	600 407 193	1,429 910 519	583		1,221 360 861	296 179 117	1,051 404 647	16 9 7	66 51 15	3.5	4.0 2.1 1.9	2.4 1.6 0.8		4.8 3.6 1.1	1.9 1.4 0.5	7.4 2.2 5.2	5.6 3.4 2.2	5.5 2.1 3.4	4.3 2.4 1.9	7.8 6.0 1.8	
Hispanic Men Women	314,564	12,753 6,201 6,552	1,062 710 352	2,071 1,306 765		51	581	973 584 389	1,422	134 61 73	275 220 55	21.0	9.3 4.5 4.8	4.3 2.9 1.4	2.5	7.9	3.0 2.0 1.0	3.5	18.4 11.1 7.4	21.6 7.5 14.1	35.8 16.3 19.5	26.0	
Asians Men Women	251,496	32,349 19,425 12,924	3,084 2,458 626	7,848	3,638	98	740	1,599 731 868	3,749	154 67 87	120 96 24		23.6 14.2 9.4	9.9	15.2	22.6	5.8 3.8 2.0	4.5	13.8	47.0 19.8 27.2	17.9	11.4	
Native Ame Men Women	er. 6,694 2,366	315 258	89 58 31	111	. 66	5 5	20	33 16 17	36	1 1 0	2 2 0		0.2	0.2	0.2	0.4	0.2	0.1	0.3	0.5 0.2 0.3		0.2	

This table was prepared by Lenny Siegel of the Pacific Studies Center from data provided by the U.S. Equal Employment Opportunity Commission. Population figures are from the 1990 U.S. Census. The figures include high-tech manufacturing, but not services.

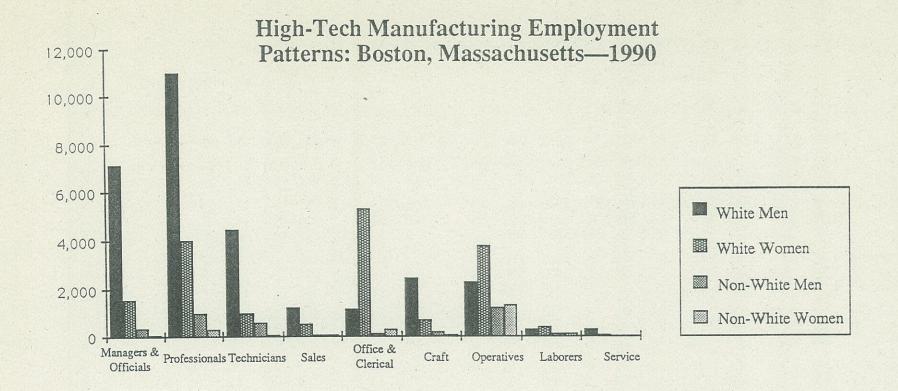
Terms: Silicon Valley = Santa Clara County; Mgr.= Officials & Managers; Prof.= Professionals; Techs = Technicians; Sales = Sales Workers; Clerks = Office & Clerical Workers; Craft = Blue-Collar Skilled Production; Operatives= Semi-Skilled Blue-Collar; Labor = Laborers/Unskilled Blue-Collar; Service = Service Workers



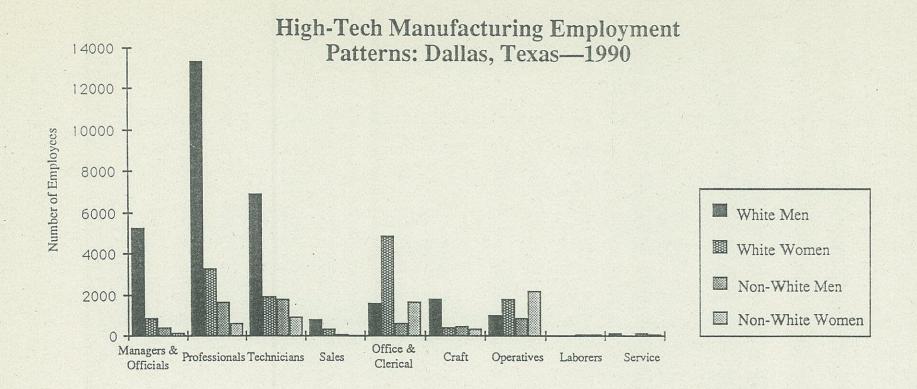
This chart was prepared from U.S. Equal Employment Opportunity Commission data for 1990 for the following industries: Office and Computing Machines and Electronic Components and Accessories.



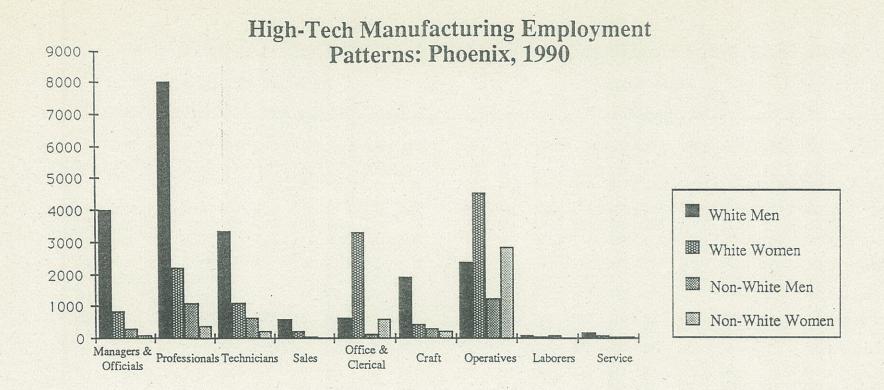
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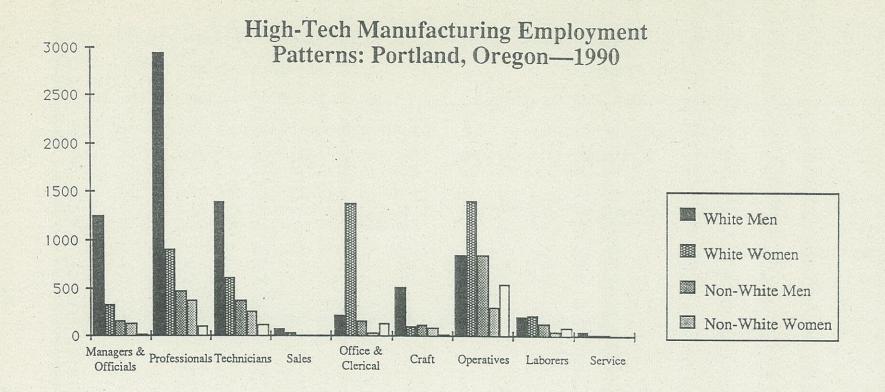
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