## Skill level differences in white-collar pay

## Carl Prieser

Differing duties and responsibilities, as well as skill levels, are major factors contributing to wide variations in pay for the same occupation. The Bureau of Labor Statistics' national survey of professional, administrative, technical. and clerical pay (PATC) underscores this observation in relation to two dozen white-collar occupations, spanning 101 work level categories in private industry. The annual survey, covering medium and large firms, is used in the pay comparability process for Federal white-collar employees. ${ }^{1}$

Engineers, the survey's most heavily populated occupa-
tional group, illustrate the effect of skill levels on pay. Recent engineering graduates averaged \$2,130 monthly in March 1983 at the first of eight survey work levels; at level VIII, engineers responsible for highly complex engineering programs averaged $\$ 5,578$ a month. In the clerical occupations, pay levels for secretaries ranged from $\$ 1,228$ monthly for individuals following general instructions in carrying out the recurring work of the office (level I) to $\$ 1,928$ monthly for those independently handling "the unexpected" for policymakers in large organizations (level V). Other examples of occupations with substantial pay differences across work levels are found in table 1.

It should be noted, however, that relatively small differences in salary levels were evident for the same level of work in different occupations. The following tabulation shows a 4-percent spread separated the highest paid and lowest

Table 1. Average monthly salaries of employees in selected white-collar occupations in private establishments, March 1983

| Occupational Ievel and Federal GS grade equivalent | All eslablishments |  | 2,500 workers or more |  | Manufacturing |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | Number of employees ${ }^{1}$ | Average monthly salaries | Percent of all establishment employment | Percent of all establishment salaries | Percent of all establishment employment | Percent of all establishment salaries |
| Accountants and Aubitors |  |  |  |  |  |  |
| Accountants I (GS-5) | 14.446 | \$1.627 | 23 | 103 | 47 | 98 |
| Accountants II (GS-7) | 24.627 | 1.939 | 31 | 109 | 57 | 100 |
| Accountants III (GS-9) | 38,490 | 2.279 | 25 | 105 | 58 | 100 |
| Accountants IV (GS-11) | 22,037 | 2.854 | 29 | 102 | 59 | 98 |
| Accountants V (GS-12) | 7,319 | 3.489 | 33 | 101 | 58 | 97 |
| Accountants VI (GS-13) | 1,423 | 4,317 | 56 | 100 | 63 | 98 |
| Chief accountants I (GS-11) | 857 | 2.807 | - | - | - | - |
| Chief accountants II (GS-12) | 1.195 | 3.472 | - | - | 63 | 98 |
| Chief accountants III (GS-13) | 741 | 4.441 | 11 | 99 | 57 | 99 |
| Chief accountants IV (GS-14) | 246 | 5.660 | - | - | - | - |
| Auditors I (GS-5) | 1.578 | 1.560 | 31 | 102 | 25 | 111 |
| Auditors I! (GS-7) | 3.530 | 1,941 | 35 | 103 | 36 | 105 |
| Auditors III (GS-9) | 4.762 | 2,354 | 37 | 103 | 36 | 103 |
| Auditors IV (GS-11) | 2,431 | 2.841 | 39 | 104 | 51 | 100 |
| Public accountants I (GS-7) | 10.804 | 1.556 | - | - | - | - |
| Public accountants II (GS-9) | 11.168 | 1.715 | - | - | - | - |
| Public accountants III (GS-11) | 8,698 | 2.023 | - | - | - | - |
| Public accountants IV (GS-12) | 5.395 | 2.428 | - | - | - | - |
| Attormeys |  |  |  |  |  |  |
| Attorneys \| (GS-9) | 1,311 | 2,343 | 33 | 113 | - | - |
| Attorneys \|I (GS-11) | 2.905 | 2.875 | 28 | 109 | 17 | 108 |

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| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | Number of employees ${ }^{1}$ | Average monthly salaries | Percent of all establishment employment | Percent of all establishment salaries | Percent of all establishment employment | Percent of all establishment salaries |
| Clerical |  |  |  |  |  |  |
| Accounting clerks I (GS-2) | 26,763 | \$933 | 13 | 126 | 30 | 105 |
| Accounting clerks II (GS-3) | 87.578 | 1,122 | 17 | 117 | 40 | 99 |
| Accounting clerks III (GS-4) | 59.324 | 1.339 | 26 | 111 | 44 | 101 |
| Accounting clerks IV (GS-5) | 21.355 | 1.621 | 39 | 109 | 52 | 101 |
| File clerks I (GS-1) | 19.738 | 809 | 9 | 108 | 13 | 106 |
| File clerks II (GS-2) | 10.926 | 911 | 18 | 113 | 20 | 117 |
| File clerks III (GS-3) | 3.457 | 1,142 | 24 | 110 | 21 | 124 |
| Key entry operators I (GS-2) | 52.682 | 1.049 | 20 | 119 | 35 | 104 |
| Key entry operators II (GS-3) | 32.483 | 1.255 | 29 | 113 | 42 | 106 |
| Messengers (GS-1) ..... | 11.746 | 910 | 26 | 113 | 26 | 110 |
| Personnel clerks I (GS-3) | 1,605 | 1.075 | 14 | 106 | 53 | 99 |
| Personnel clerks II (GS-4) | 3,575 | 1,286 | 18 | 114 | 64 | 100 |
| Personnel clerks III (GS-5) | 3,234 | 1.442 | 18 | 110 | 64 | 102 |
| Personnel clerks IV (GS-6) | 1,528 | 1.683 | 27 | 116 | 65 | 103 |
| Purchasing assistants I (GS-4) | 3.883 | 1.236 | 20 | 124 | 81 87 | 100 |
| Purchasing assistants II (GS-5) | 3,987 | 1,567 | 37 | 113 | 87 | 100 |
| Purchasing assistants III (GS-6) | 1,185 | 2.005 | 82 | 104 | 86 | 100 |
| Secretaries I (GS-4) | 57.779 | 1.228 | 28 | 115 | 42 | 105 |
| Secretaries \|| (GS-5) | 61.183 | 1,336 | 34 | 106 | 45 | 102 |
| Secretaries III (GS-6) | 102.687 | 1,521 | 37 | 109 | 52 | 102 |
| Secretaries IV (GS-7) | 45,266 | 1,686 | 36 | 107 | 48 | 101 |
| Secretaries V (GS-8) | 20.993 | 1.928 | 34 | 109 | 54 | 103 |
| Stenographers I (GS-3) | 13.635 | 1.359 | 58 |  |  |  |
| Stenographers II (GS-4) | 8.162 | 1.614 | 64 | 101 | 50 | 102 |
| Typists I (GS-2)..... | 26.832 | + 952 | 21 | 114 108 | 29 | 112 |
| Typists II (GS-3) | 13.827 | 1.257 | 42 | 108 | 42 | 109 |
| ${ }^{1}$ Occupational employment estimates relate to the total in all establishments within scope of the survey and not to the number actually surveyed. <br> tained to warrant pubiication: Chief accountant V : director of personnel V ; chemist VIII: personnel assistant V : and photographer I and V . |  |  |  |  |  |  |

paid of the six survey work levels in private industry that equate to a grade level 13 within the Federal white-collar pay system:

| Work levels | Monthly salary level |
| :---: | :---: |
| Chief accountant III | \$4,441 |
| Attorney IV | 4,432 |
| Accountant VI | 4,317 |
| Engineer VI | 4,288 |
| Director of personnel III | 4.275 |
| Chemist VI | 4.252 |

Thus, skill level can act as a source of wage variation or wage uniformity.

Besides skill level, other factors studied that bear on white-collar pay levels include the size of a firm's workforce and its industrial activity. In addition to presenting overall survey results, table 1 relates occupational employment and salary information separately for large firms (at least 2,500 employees) and for manufacturers to all-industry figures.

Salary levels in large establishments were consistently higher than the levels in the survey as a whole. Of the 91 occupational work levels permitting comparison, 37 showed large establishments within 3 percent of the all-establishment average, 37 were from 4 to 10 percent higher, and the remaining 17,10 percent or more above the average. Clerical occupations accounted for 14 of the 17 levels with the largest differences.

For manufacturing establishments, salaries were at or
slightly above the all-industry averages for most occupations. Salary levels for 70 of the 91 work levels permitting comparisons showed manufacturing within 3 percent of the all-industry average, and 16 of the remaining 21 levels were from 4 to 10 percent higher than the average. The occupations with the highest relative salaries in manufacturing were lower level-clerical occupations, such as messengers, typists, and file clerks.

Although the survey focuses on salary levels, it also permits a look at salary trends. In this connection, some 100 occupational work levels were grouped into three broad categories of skill levels: Group A equates to grades 1-4 of the Federal Government General Salary (gS) Schedule; Group B to grades 5-9; and Group C to grades 11-15. (See

Table 2. Percent increases in average salaries by work level category, 1973-83

| Period | $\begin{gathered} \text { Group A } \\ \text { (GS grades 1-4) } \end{gathered}$ | $\begin{gathered} \text { Group B } \\ \text { (GS grades 5-9) } \end{gathered}$ | $\begin{gathered} \text { Group C } \\ \text { (GS grades 11-15) } \end{gathered}$ |
| :---: | :---: | :---: | :---: |
| 1973-83 | 116.4 | 113.5 | 122.0 |
| 1973-74 | 6.2 | 5.7 | 6.2 |
| 1974-75 | 9.1 | 8.6 | 8.8 |
| 1975-76 | 7.6 | 6.4 | 6.5 |
| 1976-77 | 6.9 | 6.3 | 7.7 |
| 1977-78 | 7.5 | 8.0 | 8.8 |
| 1978-79 | 7.2 | 7.5 | 8.0 |
| 1979-80 | 9.1 | 10.1 | 9.3 |
| 1980-81 | 9.8 | 9.6 | 10.2 |
| 1981-82 | 9.5 | 9.4 | 10.4 |
| 1982-83 | 7.4 | 7.3 | 7.2 |

table 1 for identification of the job classifications that equate to each GS grade for use in the Federal pay setting process. ${ }^{2}$ ) In 1982-83, increases in average salaries varied little among these groups- 7.2 to 7.4 percent. Since 1973, cumulative percentage increases have been the highest for the grades 11-15 category and lowest for the middle grades. (See table 2.)

A more detailed analysis of white-collar salaries and complete results of this year's survey are contained in the National Survey of Professional, Administrative, Technical and Clerical Pay, March 1983, Bls Bulletin 2181. It includes salary distributions for 101 occupational work levels, and relative employment and salary levels by industry division for the two dozen occupations covered.

## _-_FOOTNOTES———

[^1]
## Wages of appliance repair technicians vary widely among metropolitan areas

## Harry B. Williams

Pay levels for technicians repairing major consumer electrical products in 19 metropolitan areas averaged from $\$ 7.93$ an hour in Buffalo to $\$ 10.43$ in San Francisco-Oakland, according to a November 1981 Bureau of Labor Statistics survey. ${ }^{1}$ These technicians worked in appliance repair facilities operated by electrical repair shops, department stores, retail television and radio stores, appliance retailers, and appliance wholesalers.

About two-thirds of the technicians specialized in repairing either television sets, radios, and tape players (brown

[^2]goods) or larger household appliances such as refrigerators, freezers, and washers (white goods); their average earnings in individual areas typically were between $\$ 7$ and $\$ 9$ an hour. A group of approximately 4,350 technicians-called service technicians-routinely worked on both brown and white goods during the survey period and could not be classified as either television-radio or electrical appliance technicians. Because of their dual skills, service technicians usually averaged more per hour than television-radio or electrical appliance technicians; however, separate data for service technicians met Bureau publication criteria only in Newark, where 208 full-time service technicians employed in combination (inside and outside) work averaged $\$ 10.31$ an hour.

Among the 19 areas surveyed, pay levels were highest for full-time technicians in the San Francisco-Oakland area, where TV-radio repairers averaged $\$ 9.87$ and electrical appliance repairers, $\$ 9.72$. The lowest averages were found in Memphis at $\$ 6.65$ for TV -radio repairers and $\$ 6.12$ for electrical appliance repairers. (See table 1.) Average wages for part-time workers in the same occupations most frequently were between $\$ 5.75$ and $\$ 8.75$ an hour.

Full-time apprentice technicians often earned 30 to 50 percent less, on average, than the qualified technicians. Averages for electrical appliance apprentices, in 9 areas, ranged from $\$ 4.58$ an hour in Boston to $\$ 7.95$ an hour in Chicago. Hourly earnings of TV-radio apprentices, in 12 areas, averaged from $\$ 4.01$ in Memphis to $\$ 8.10$ in San Francisco-Oakland. TV-radio apprentices averaged more than their electrical appliance counterparts in 4 of 6 areas for which data permit comparison.

Electrical appliance technicians, however, usually averaged more than their Tv-radio counterparts. Their pay advantages, typically between 2 and 10 percent, were largely explained by three factors: industry, union status, and size of repair facility. To illustrate, nearly one-third of the electrical appliance technicians worked in department stores or for appliance wholesalers-the two highest-paying industry branches. Such establishments employed slightly more than one-tenth of the television-radio technicians. Also, union contracts covered slightly more than one-third of the survey's white-goods technicians and apprentices compared with one-fourth of those servicing brown goods. The study showed that technicians in shops with union contracts nearly always averaged more per hour than their nonunion counterparts. Additionally, four-fifths of the white-goods technicians, compared with slightly over two-fifths of their browngoods counterparts, were in establishments with at least 10 repairers. Technicians in shops with at least 10 repairers usually averaged more than those in smaller shops. But, when comparisons were limited to establishments employing both types of technicians (about 13 percent of the establishments studied), brown-goods technicians commonly received as much as, or more than, white-goods technicians.

Separate earnings data were developed for three cate-


[^0]:    See footnote at end of table.

[^1]:    ${ }^{1}$ The Patc survey is conducted by the Bureau of Labor Statistics, but survey occupations and coverage such as establishment size and the private sector industries to be included are determined by the President's Pay Agent - the Secretary of Labor and the Directors of the Office of Management and Budget and the Office of Personnel Management. The Agent has designated the industrial coverage and minimum size establishment as follows: manufacturing, 100 or 250 employees; transportation, communications, electric, gas, and sanitary services, 100 or 250 employees; mining and construction, 250 employees; wholesale trade, 100 employees: retail trade, 250 employees; finance, insurance, and real estate, 100 employees; and selected services, 50 or 100 employees. The pay-setting role of the Patc survey is described in George L. Stelluto's, "Federal pay comparability: facts to temper the debate,', Monthly Labor Review, June 1979, pp. 18-28.
    ${ }^{2}$ In 1983, a total of 101 work levels produced publishable data out of 107 levels within scope of the survey. Widely varying duties and responsibilities may be embodied in work levels within each of the broad categories of table 2; for example, Group B includes clerical and technical positions, such as accounting clerk IV and engineering technician IV, as well as the entry and developmental levels of professional occupations.

[^2]:    Harry B. Williams is an economist with the Division of Occupational Pay and Employee Benefit Levels, Bureau of Labor Statistics.

