

331.76
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1961
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REPRODUCTION
of



the
university
of Illinois
at Urbana-Champaign
college of engineering
1961 GRADUATES
10 years later
where are
they
now?

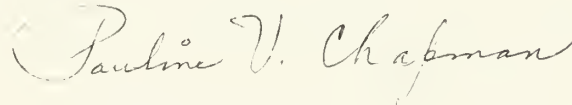
Ten years after graduation from college is an important milestone in the career of an engineer. By that time the uncertainties of the first few years have been reconciled and, in most cases a career pattern has been established.

The information in the following report covers the 1961 graduates of the College of Engineering at the University of Illinois at Urbana.


We are sorry for the delay in getting the completed report to the graduates who furnished us with the information which made it possible to complete the report. There were many delays and circumstances conspired to make an earlier publication date impossible. We thank each and every one of the graduates for their participation and their patience.

It is our hope that the following information will be both interesting and helpful.

(Mrs.) Pauline V. Chapman

A handwritten signature in cursive script that reads "Pauline V. Chapman". The signature is written in dark ink and is positioned to the left of the typed name and title.

Placement Director
College of Engineering
University of Illinois
Urbana, Illinois 61801



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TEN-YEAR SALARY PROGRESS OF ENGINEERING GRADUATES WHO RECEIVED A B.S. DEGREE IN 1961

| | Number of Questionnaires Sent | Number of Questionnaires Returned | Percent of Return | Military Service | Currently in Graduate School | Unemployed | Employed | Average Monthly Salary 1971 | High Monthly Salary 1971 | Low Monthly Salary 1971 | Average Starting Salary 1961 | Percent of Increase 1961-1971 |
|---------------|-------------------------------|-----------------------------------|-------------------|------------------|------------------------------|------------|---------------|-----------------------------|--------------------------|-------------------------|------------------------------|-------------------------------|
| All Engineers | 640 ¹ | 397 | 62.03% | 3.03% 12 | 2.27% 9 | .50% 2 | 94.20% 374 | \$1474. | \$7500. ³ | \$ 442. ³ | \$549. | 169.40% ² |
| Aero. E. | 47 | 32 | 68.09% | 3 | - | - | 29 | 1615 | 7500. ³ | 442. ³ | 573 | 181.84% |
| Ag. E. | 19 | 12 | 63.16% | - | 1 | - | 11 | 1364. | 2000. | 900. | 510. | 167.45% |
| Ceram. E. | 10 | 6 | 60.00% | - | - | - | 6 | 1384. | 1830. | 975. | 500. | 176.80% |
| Civil E. | 106 | 76 | 71.70% | 3 | 2 | - | 71 | 1405. | 2750. | 925. | 506. | 177.67% |
| E. E. | 191 | 120 | 62.83% | 3 | 2 | 1 | 114 | 1506. | 2542. | 510. | 570. | 164.21% |
| E. Mech. | 13 | 11 | 84.62% | - | - | - | 11 | 1478. | 2100. | 1050. | 562. | 162.99% |
| E. Phys. | 30 | 11 | 36.67% | - | - | - | 11 | 1512. | 2300. | 1100. | 587. | 157.58% |
| G. E. | 34 | 14 | 41.18% | 1 | - | - | 13 | 1842. | 3500. | 1250. | 533. | 245.59% |
| I. E. | 29 | 20 | 68.97% | - | 1 | - | 19 | 1349. | 1750. | 800. | 551. | 144.83% |
| M. E. | 133 | 75 | 56.39% | 2 | 2 | 1 | 70 | 1484. | 3500. | 548. | 547. | 171.85% |
| Met. E. | 20 | 15 | 75.00% | - | 1 | - | 14 | 1312. | 1642. | 1050. | 539. | 143.41% |
| Min. E. | 8 | 5 | 62.50% | - | - | - | 5 | 1361. | 1667. | 1155. | 519. | 162.24% |

¹657 original number sent - 11 were returned for incorrect addresses; 4 too late to be included in the survey; and 2 did not give the information requested

²Increase in starting salaries: 1961 to 1971 - 59.56%

³Highest salary - \$7500/mo., owns and operates cattle and livestock feed business; Lowest salary - \$442/mo., is a clerk for a freight forwarding company

SALARY COMPARISON FIGURES OF THOSE WHO HAVE COMPLETED AN ADVANCED DEGREE SINCE 1961 AND THOSE WHO HAVE NOT

| | Total Employed | No Advanced Degree | M.S. in Original Field | M.S. in Other Technical Field | M.S. in Non-Technical Field | Ph.D. in Original Field | Ph.D. in Other Technical Field | M.B.A. | Law Degree | Other |
|---------------------------------------|----------------|--------------------|----------------------------|-------------------------------|-----------------------------|----------------------------|--------------------------------|----------------------------|---------------------------|---------------------------|
| All Engineers Average Salary | 374 | 234 \$1456. | 56 ¹ \$1512. | 19 ¹ \$1601. | 2 ¹ \$1575. | 19 ¹ \$1453. | 9 ¹ \$1564. | 27 ¹ \$1474. | 4 ¹ \$1712. | 4 ¹ \$1477. |
| Aero. & Astro. Eng. Average Salary | 29 | 15 1717. | 3 1600. | 5 1453. | - | 4 1578. | - | 2 1650. | - | - |
| Agricultural Eng. Average Salary | 11 | 6 1187. | 2 1405. | 1 2000. | - | - | - | 2 1534. | - | - |
| Ceramic Eng. Average Salary | 6 | 2 1038. | 2 1412. | - | - | 2 1703. | - | - | - | - |
| Civil Eng. Average Salary | 71 | 56 1390. | 7 1557. | 2 1435. | - | 3 1367. | - | 2 1275. | 1 1525. | - |
| Electrical Eng. Average Salary | 114 | 67 1497. | 25 1538. | 3 1395. | 1 1300. | 5 1449. | - | 7 1546. | 2 1750. | 4 1477. |
| Eng. Mechanics Average Salary | 11 | 3 1278. | 4 1481. | - | - | 1 1200. | 3 1767. | - | - | - |
| Eng. Physics Average Salary | 11 | 1 2300. | 2 1453. | 1 1517. | - | 2 1217. | 5 1495. | - | - | - |
| General Eng. Average Salary | 13 | 8 1969. | - | 2 1767. | - | - | - | 3 1553. | - | - |
| Industrial Eng. Average Salary | 19 | 14 1355. | - | 1 1317. | - | - | - | 4 1334. | - | - |
| Mechanical Eng. Average Salary | 70 | 47 1424. | 9 1576. | 4 1931. | 1 1850. | 2 1455. | 1 1300. | 5 1432. | 1 1823. | - |
| Metallurgical Eng. Average Salary | 14 | 11 1307. | 2 1245. | - | - | - | - | 1 1500. | - | - |
| Mining Eng. Average Salary | 5 | 4 1349. | - | - | - | - | - | 1 1410. | - | - |

¹Of the 140 who completed an advanced degree 73 (52.15%) completed the degree as a full-time student, 67 (47.85%) as a part-time student while employed.

CORRELATION BETWEEN SCHOLASTIC AVERAGE AND FINANCIAL PROGRESS 1961-1971

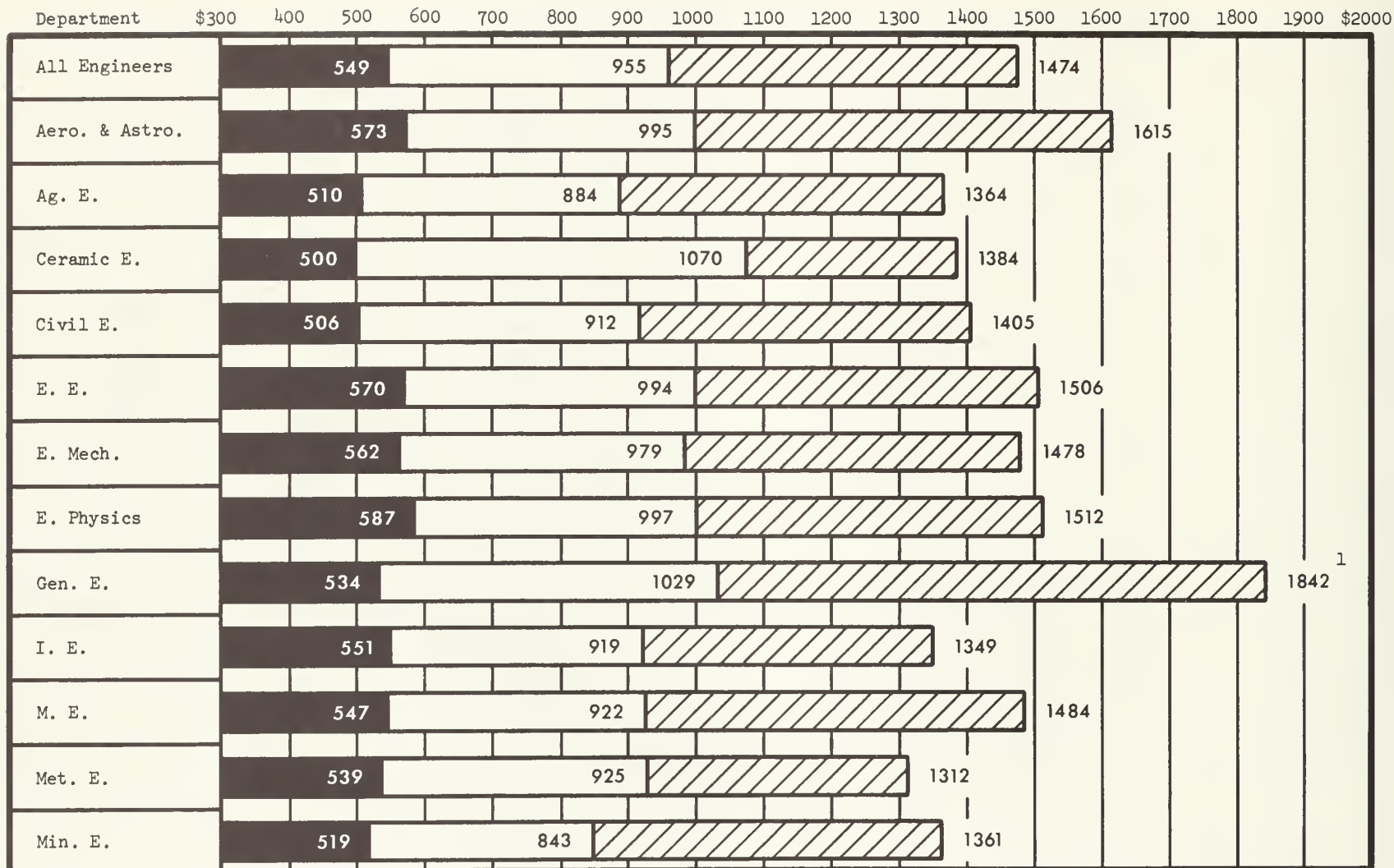
| | Total Employed | 1st Decile 5.000 - 4.421 | 2nd Decile 4.420 - 4.120 | 3rd Decile 4.119 - 3.910 | 4th Decile 3.909 - 3.719 | 5th Decile 3.718 - 3.580 | 6th Decile 3.579 - 3.439 | 7th Decile 3.438 - 3.330 | 8th Decile 3.329 - 3.249 | 9th Decile 3.248 - 3.125 | 10th Decile 3.124 & below |
|---------------|-------------------|-----------------------------|-----------------------------|-----------------------------|-----------------------------|-----------------------------|-----------------------------|-----------------------------|-----------------------------|-----------------------------|------------------------------|
| All Engineers | 374 | 38 \$1562. | 38 \$1501. | 38 \$1490. | 38 \$1418. | 37 \$1523. | 37 \$1431. | 37 \$1487. | 37 \$1560. | 37 \$1363. | 37 \$1451. |
| Aero. E. | 29 | 2 1450. | 3 1402. | 4 1316. | 3 1410. | 3 1549. | 4 1472. | 3 1490. | 2 4375. | 2 1300. | 3 1290. |
| Ag. E. | 11 | - | 3 1473. | 2 1306. | - | 1 1171. | 3 1296. | - | 1 1460. | 1 1450. | - |
| Ceram. E. | 6 | 2 1513. | - | - | - | - | - | 1 1100. | 2 1403. | 1 1374. | - |
| Civil E. | 71 | 3 1333. | 3 1263. | 7 1358. | 8 1360. | 5 1374. | 5 1337. | 11 1542. | 7 1498. | 11 1346. | 11 1436. |
| E. E. | 114 | 19 1578. | 14 1654. | 8 1551. | 13 1471. | 13 1427. | 15 1505. | 6 1505. | 13 1351. | 6 1540. | 9 1456. |
| E. Mech. | 11 | 3 1850. | 2 1299. | 3 1278. | 1 1750. | - | - | 2 1263. | - | - | - |
| E. Phys. | 11 | 3 1417. | 5 1411. | 2 2000. | 1 1325. | - | - | - | - | - | - |
| G. E. | 13 | 2 1900. | 1 1333. | - | 1 1700. | 4 2025. | 1 2500. | 1 1810. | - | - | 3 1567. |
| I. E. | 19 | - | 1 1250. | 2 1471. | 4 1307. | 2 1405. | 2 1485. | - | 2 1350. | 4 1357. | 2 1150. |
| M. E. | 70 | 3 1550. | 6 1537. | 10 1607. | 5 1418. | 7 1667. | 9 1274. | 11 1505. | 7 1417. | 8 1260. | 4 1787. |
| Met. E. | 14 | - | - | - | 1 1420. | 2 1263. | - | 1 1170. | 3 1350. | 3 1268. | 4 1348. |
| Min. E. | 5 | 1 1200. | - | - | 1 1155. | - | - | 1 1410. | - | 1 1667. | 1 1375. |

RANGE OF 1971 SALARIES OF 1961 ENGINEERING GRADUATES

The monthly salaries are divided according to the degree held in 1971.

| B.S. Degree | | Salary | Total | Salary | Total | M.S. Degree | | Salary | Total | Salary | Total | Law Degree | |
|-------------|---|--------|-------|--------|-------|-------------|-------|--------|-------|--------|-------|------------|-------|
| | | \$1542 | 1 | \$1271 | 1 | | | \$1333 | 1 | \$1325 | 1 | | |
| | | 1540 | 2 | 1270 | 2 | Salary | Total | 1326 | 2 | 1300 | 3 | Salary | Total |
| \$7500 | 1 | 1533 | 1 | 1260 | 1 | \$3500 | 1 | 1320 | 2 | 1292 | 1 | \$1823 | 1 |
| 3500 | 1 | 1525 | 1 | 1250 | 11 | 3000 | 1 | 1317 | 1 | 1235 | 1 | 1800 | 1 |
| 2750 | 1 | 1520 | 1 | 1248 | 1 | 2200 | 2 | 1316 | 1 | 1200 | 1 | 1700 | 1 |
| 2680 | 1 | 1500 | 10 | 1245 | 1 | 2100 | 1 | 1300 | 4 | 1100 | 1 | 1525 | 1 |
| 2542 | 1 | 1485 | 1 | 1237 | 1 | 2050 | 1 | 1275 | 1 | 1000 | 1 | | 1 |
| 2500 | 1 | 1475 | 1 | 1230 | 2 | 2000 | 2 | 1272 | 1 | | 28 | | 4 |
| 2300 | 1 | 1460 | 2 | 1225 | 1 | 1972 | 1 | 1260 | 1 | | | | |
| 2125 | 1 | 1458 | 1 | 1222 | 1 | 1900 | 1 | 1250 | 1 | | | | |
| 2000 | 5 | 1456 | 1 | 1215 | 1 | 1885 | 1 | 1235 | 1 | | | | |
| 1920 | 1 | 1450 | 2 | 1213 | 1 | 1873 | 1 | 1233 | 1 | | | | |
| 1900 | 1 | 1440 | 1 | 1210 | 1 | 1850 | 1 | 1200 | 1 | | | | |
| 1875 | 2 | 1428 | 1 | 1200 | 11 | 1817 | 1 | 1190 | 1 | | | | |
| 1850 | 1 | 1425 | 2 | 1190 | 1 | 1750 | 2 | 1180 | 1 | | | | |
| 1830 | 1 | 1420 | 4 | 1175 | 3 | 1685 | 1 | 1170 | 1 | | | | |
| 1800 | 7 | 1417 | 1 | 1171 | 1 | 1650 | 1 | 1000 | 1 | | | | |
| 1780 | 1 | 1410 | 3 | 1170 | 1 | 1638 | 1 | 548 | 1 | | | | |
| 1750 | 2 | 1408 | 1 | 1167 | 1 | 1625 | 1 | | 77 | | | | |
| 1733 | 1 | 1400 | 7 | 1165 | 1 | 1600 | 2 | | | | | | |
| 1710 | 1 | 1380 | 1 | 1155 | 1 | 1590 | 1 | | | | | | |
| 1700 | 6 | 1377 | 1 | 1125 | 1 | 1540 | 1 | | | | | | |
| 1690 | 1 | 1375 | 1 | 1120 | 1 | 1533 | 1 | | | | | | |
| 1687 | 1 | 1370 | 2 | 1100 | 5 | 1517 | 2 | | | | | | |
| 1667 | 2 | 1369 | 1 | 1085 | 2 | 1510 | 1 | | | | | | |
| 1666 | 1 | 1365 | 2 | 1070 | 1 | 1505 | 1 | | | | | | |
| 1651 | 1 | 1362 | 1 | 1050 | 2 | 1500 | 6 | | | | | | |
| 1650 | 2 | 1352 | 1 | 1041 | 1 | 1480 | 1 | | | | | | |
| 1642 | 1 | 1350 | 4 | 1000 | 3 | 1473 | 1 | | | | | | |
| 1640 | 1 | 1340 | 2 | 980 | 1 | 1460 | 2 | | | | | | |
| 1631 | 1 | 1335 | 2 | 975 | 1 | 1450 | 2 | | | | | | |
| 1630 | 1 | 1334 | 1 | 958 | 1 | 1440 | 1 | | | | | | |
| 1625 | 1 | 1330 | 4 | 940 | 1 | 1409 | 1 | | | | | | |
| 1610 | 1 | 1320 | 1 | 925 | 1 | 1405 | 1 | | | | | | |
| 1600 | 9 | 1310 | 2 | 900 | 2 | 1400 | 3 | | | | | | |
| 1595 | 1 | 1300 | 17 | 800 | 1 | 1390 | 2 | | | | | | |
| 1590 | 2 | 1296 | 1 | 510 | 1 | 1374 | 1 | | | | | | |
| 1585 | 1 | 1295 | 1 | 442 | 1 | 1370 | 1 | | | | | | |
| 1583 | 1 | 1290 | 1 | | 234 | 1350 | 1 | | | | | | |
| 1575 | 1 | 1280 | 1 | | | 1340 | 1 | | | | | | |
| 1550 | 2 | 1275 | 4 | | | 1337 | 1 | | | | | | |
| | | | | | | 1337 | 1 | | | | | | |

AVERAGE MONTHLY SALARIES



¹Highest salary - \$7500/mo., owns and operates livestock feed business.

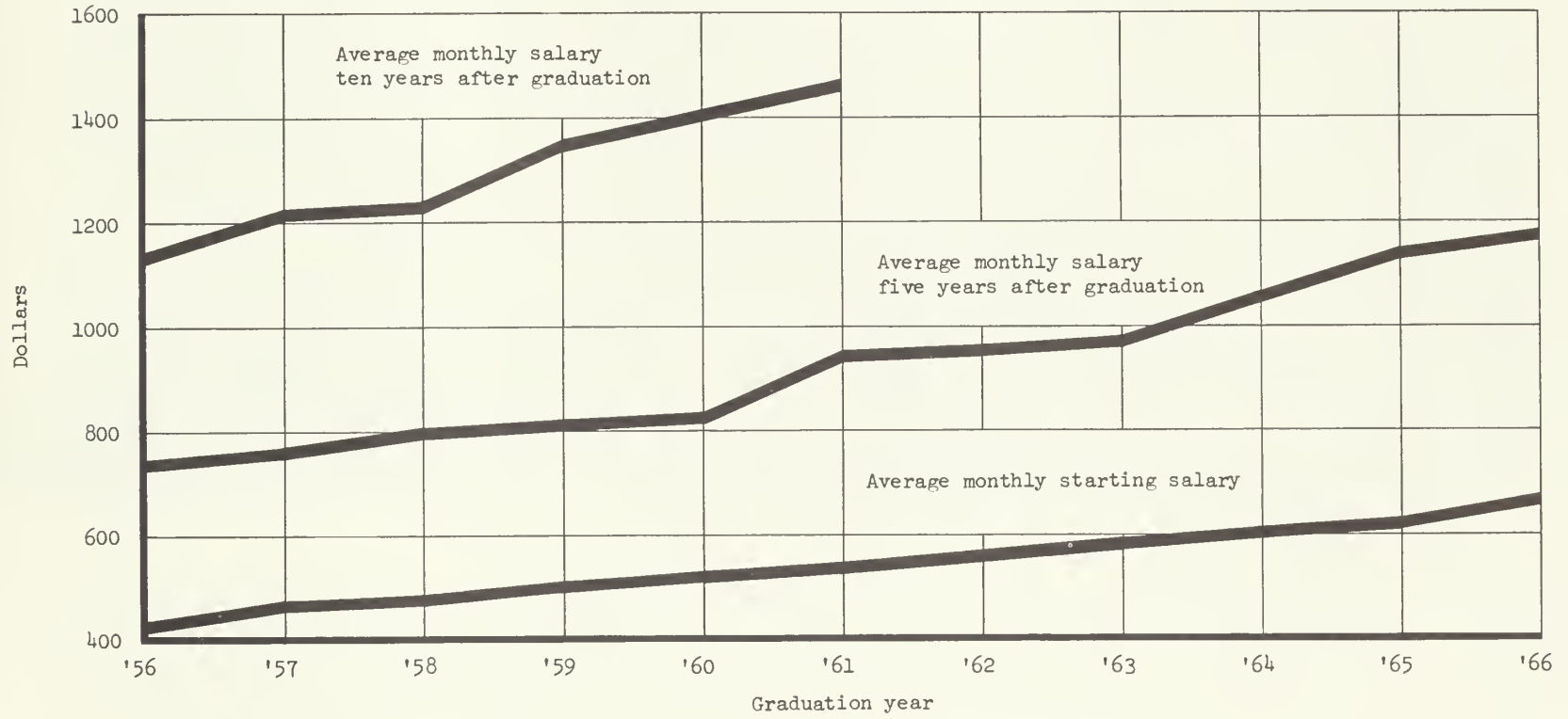
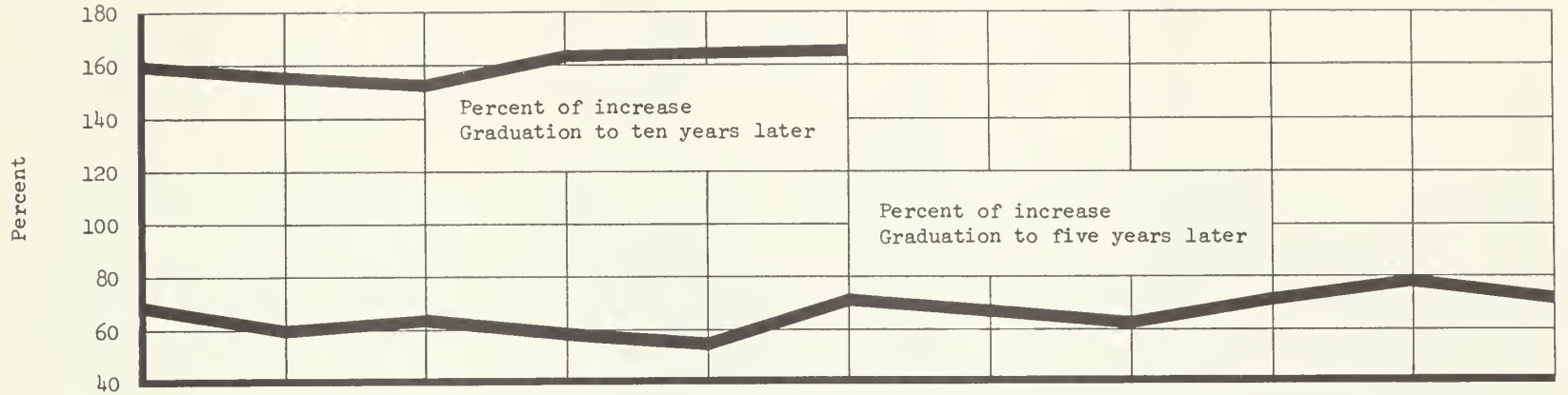
At graduation-1961

After 5 years-1966

After 10 years-1971



A STUDY OF AVERAGE MONTHLY SALARIES



JOB CHANGES SINCE 1961

| | | | No Change | | | One Change | | | Two Changes | | | Three Changes | | | Four or More Changes | | |
|-------------------------|---------------|----------------|-----------|-------------------|---------|------------|-------------------|---------|-------------|-------------------|---------|---------------|-------------------|---------|----------------------|-------------------|---------|
| Total Percent of Change | | Total Employed | Number | Percent no change | Salary | Number | Percent of Change | Salary | Number | Percent of Change | Salary | Number | Percent of Change | Salary | Number | Percent of Change | Salary |
| 61.50% | All Engineers | 374 | 144 | 38.50% | \$1501. | 104 | 27.81% | \$1470. | 80 | 21.39% | \$1491. | 34 | 9.09% | \$1386. | 12 ¹ | 3.21% | \$1477. |
| 58.62% | Aero. E. | 29 | 12 | 41.38% | 1473. | 6 | 20.69% | 2487. | 5 | 17.25% | 1433. | 3 | 10.34% | 974. | 3 | 10.34% | 1380. |
| 54.54% | Ag. E. | 11 | 5 | 45.46% | 1281. | 3 | 27.27% | 1473. | 3 | 27.27% | 1392. | - | - | - | - | - | - |
| 33.33% | Ceram. E. | 6 | 4 | 66.67% | 1439. | 2 | 33.33% | 1275. | - | - | - | - | - | - | - | - | - |
| 69.01% | Civil E. | 71 | 22 | 30.99% | 1439. | 27 | 38.02% | 1302. | 15 | 21.13% | 1491. | 5 | 7.04% | 1420. | 2 | 2.82% | 1744. |
| 57.89% | E. E. | 114 | 48 | 42.11% | 1524. | 26 | 22.81% | 1501. | 24 | 21.05% | 1483. | 11 | 9.65% | 1557. | 5 | 4.38% | 1362. |
| 54.55% | E. Mech. | 11 | 5 | 45.45% | 1476. | 3 | 27.27% | 1543. | - | - | - | 3 | 27.28% | 1417. | - | - | - |
| 63.64% | E. Phys. | 11 | 4 | 36.36% | 1781. | 5 | 45.45% | 1355. | 2 | 18.18% | 1367. | - | - | - | - | - | - |
| 53.85% | G. E. | 13 | 6 | 46.15% | 1650. | 3 | 23.08% | 2303. | 4 | 30.77% | 1783. | - | - | - | - | - | - |
| 68.42% | I. E. | 19 | 6 | 31.58% | 1558. | 6 | 31.58% | 1156. | 4 | 21.05% | 1382. | 3 | 15.79% | 1270. | - | - | - |
| 64.29% | M. E. | 70 | 25 | 35.71% | 1565. | 18 | 25.71% | 1406. | 20 | 28.57% | 1516. | 6 | 8.57% | 1253. | 1 | 1.44% | 1625. |
| 71.43% | Met. E. | 14 | 4 | 28.57% | 1228. | 5 | 35.71% | 1241. | 3 | 21.43% | 1424. | 2 | 14.29% | 1488. | - | - | - |
| 40.00% | Min. E. | 5 | 3 | 60.00% | 1243. | - | - | - | - | - | - | 1 | 20.00% | 1410. | 1 | 20.00% | 1667. |

¹10 made 5 changes - \$1495. (2 A.A.E., 2 C.E., 4 E.E., 1 M.E., 1 Min.E.)

1 made 7 changes - \$1500. (1 A.A.E.)

1 made 8 changes - \$1275. (1 E.E.)

REASONS FOR CHANGING POSITIONS

Some combining of reasons has been attempted but in order to bring out as many dissatisfactions as possible the following list resulted. Some respondents listed more than one reason; others gave no reason even though one was requested.

REASONS INVOLVING ACTUAL WORK

- 93 better job opportunity
- 34 limited or no opportunity for advancement
- 20 desired more responsibility
- 18 to change engineering fields
- 12 wanted more creative and challenging experience
- 9 limited range for experience
- 9 wanted different type of experience
- 9 disliked type of work
- 5 bad supervision
- 4 no support from management
- 4 to enter field outside of engineering
- 2 poor working conditions
- 2 position misrepresented
- 2 dissatisfaction with training program
- 2 no opportunity to use advanced degree
- 1 hours too long
- 1 no opportunity to apply skills and knowledge
- 1 personnel friction
- 1 to obtain more practical experience
- 1 job relocated, did not wish to transfer

REASONS INVOLVING THE COMPANY

- 37 laid-off
- 16 to accept position with smaller company
- 9 company reorganized
- 4 general dissatisfaction with company
- 4 financial situation of company looked bad
- 3 company went out of business
- 2 end of contract

- 2 company lacked proper ethics
- 1 no future
- 1 conflict with supervisor
- 1 potential stock option failed to materialize
- 1 union membership made mandatory
- 1 disliked company work environment
- 1 promised partnership, it failed to materialize
- 1 preferred private to corporate business environment
- 1 too large and bureaucratic
- 1 too much red tape
- 1 to enter private industry in field closer to goals
- 1 poor expense account policies
- 1 to join "spin off" company
- 1 to join a new company with excellent promise

PERSONAL REASONS

- 50 wanted more money
- 35 to attend graduate school
- 29 geographical change
- 20 to enter military service
- 6 to start own business
- 6 too much travel
- 4 personal reasons
- 1 to establish company on a commission basis
- 1 own business failed
- 1 to enter family business
- 1 left job when advanced degree completed
- 1 went to Europe
- 1 needed change
- 1 career unsuitable for family
- 1 desired to travel

PRESENT GEOGRAPHIC LOCATION OF 1961 ENGINEERING GRADUATES

| Location | All Engineers | Percent | Geographic Location 1961 | Aero. E. | Ag. E. | Ceram. E. | Civil E. | E. E. | E. Mech. | E. Phys. | G. E. | I. E. | M. E. | Met. E. | Min. E. |
|--------------------|---------------|---------|--------------------------|----------|--------|-----------|----------|-------|----------|----------|-------|-------|-------|---------|---------|
| Illinois | 128 | 34.22% | 34.91% | 3 | 5 | - | 44 | 29 | 4 | 1 | 5 | 7 | 28 | 1 | 1 |
| Chicago & Suburbs | 73 | | | | | | | | | | | | | | |
| Outside Chicago | 55 | | | | | | | | | | | | | | |
| California | 59 | 15.76% | 18.83% | 11 | - | 1 | 10 | 22 | 1 | 2 | 2 | - | 8 | 2 | - |
| New York | 17 | 4.55% | 5.78% | - | - | - | - | 8 | 1 | - | 1 | 2 | 3 | 1 | 1 |
| Ohio | 14 | 3.74% | 3.27% | 3 | 1 | - | - | 1 | 1 | - | 1 | - | 4 | 3 | - |
| Texas | 12 | 3.21% | 1.01% | - | 1 | 1 | - | 4 | - | 2 | - | - | 2 | - | 2 |
| Indiana | 10 | 2.67% | 3.77% | - | - | 1 | 1 | 3 | - | - | - | 3 | 2 | - | - |
| Michigan | 10 | 2.67% | 3.02% | - | 1 | - | 1 | 4 | - | - | 2 | - | 2 | - | - |
| Pennsylvania | 10 | 2.67% | 2.76% | - | - | 1 | 1 | 2 | 1 | 1 | - | - | 3 | - | 1 |
| Maryland | 9 | 2.41% | 1.01% | - | 2 | - | 2 | 4 | - | - | - | - | 1 | - | - |
| Wisconsin | 9 | 2.41% | 3.52% | 1 | - | - | 1 | 1 | - | - | - | 1 | 3 | 2 | - |
| Minnesota | 8 | 2.14% | 1.26% | - | - | - | - | 6 | - | - | - | 2 | - | - | - |
| Missouri | 8 | 2.14% | 1.26% | 3 | - | - | 1 | - | - | - | 1 | - | 3 | - | - |
| New Jersey | 8 | 2.14% | 2.51% | - | - | - | - | 4 | - | 2 | - | 1 | - | 1 | - |
| Massachusetts | 7 | 1.87% | .25% | 1 | - | - | 1 | 3 | - | - | - | 2 | - | - | - |
| N. Carolina | 7 | 1.87% | 1.01% | 1 | - | - | 1 | 4 | 1 | - | - | - | - | - | - |
| Washington, D.C. | 6 | 1.60% | 1.51% | 1 | - | - | - | 3 | 1 | - | - | - | - | 1 | - |
| Washington (State) | 6 | 1.60% | 3.77% | 1 | - | - | - | 3 | - | - | - | - | 1 | 1 | - |
| Arizona | 6 | 1.60% | - | - | - | - | - | 3 | - | - | - | - | 3 | - | - |
| Connecticut | 5 | 1.34% | 1.51% | - | - | 1 | 1 | 1 | 1 | - | - | 1 | - | - | - |
| Louisiana | 4 | 1.07% | - | 2 | - | 1 | - | 1 | - | - | - | - | 1 | - | - |
| Alabama | 3 | .80% | - | - | - | - | 1 | 1 | - | - | - | - | - | 1 | - |
| Colorado | 3 | .80% | 1.26% | - | - | - | - | 2 | - | - | - | - | 1 | - | - |
| Florida | 3 | .80% | 1.76% | - | - | - | 1 | 1 | - | - | - | - | 1 | - | - |
| New Mexico | 3 | .80% | 1.01% | 1 | - | - | - | 1 | - | 1 | - | - | - | - | - |
| Tennessee | 3 | .80% | .25% | - | - | - | 1 | - | - | - | - | - | 2 | - | - |
| Virginia | 3 | .80% | .50% | - | - | - | - | 2 | - | - | 1 | - | - | - | - |
| Mississippi | 2 | .53% | - | - | - | - | 1 | - | - | - | - | - | 1 | - | - |
| Georgia | 1 | .27% | - | - | - | - | 1 | - | - | - | - | - | - | - | - |
| Germany | 1 | .27% | - | - | - | - | 1 | - | - | - | - | - | - | - | - |
| Hawaii | 1 | .27% | .25% | - | - | - | 1 | - | - | - | - | - | - | - | - |
| Kansas | 1 | .27% | - | 1 | - | - | - | - | - | - | - | - | - | - | - |
| Mexico | 1 | .27% | - | - | - | - | - | - | - | 1 | - | - | - | - | - |

(Continued on following page.)

PRESENT GEOGRAPHIC LOCATION OF 1961 ENGINEERING GRADUATES (Continued)

| Location | All Engineers | Percent | Geographical Location 1961 | Aero. E. | Ag. E. | Ceram. E. | Civil E. | E. E. | E. Mech. | E. Phys. | G. E. | I. E. | M. E. | Met. E. | Min. E. |
|--------------|---------------|---------|----------------------------|----------|--------|-----------|----------|-------|----------|----------|-------|-------|-------|---------|---------|
| N. Dakota | 1 | .27% | - | - | - | - | - | - | - | 1 | - | - | - | - | - |
| Oklahoma | 1 | .27% | - | - | 1 | - | - | - | - | - | - | - | - | - | - |
| Oregon | 1 | .27% | - | - | - | - | - | - | - | - | - | - | - | 1 | - |
| Rhode Island | 1 | .27% | .25% | - | - | - | - | 1 | - | - | - | - | - | - | - |
| Utah | 1 | .27% | .50% | - | - | - | - | 1 | - | - | - | - | - | - | - |
| Vermont | 1 | .27% | - | - | - | - | - | - | - | - | - | - | 1 | - | - |
| Alaska | - | - | .25% | - | - | - | - | - | - | - | - | - | - | - | - |
| Idaho | - | - | .25% | - | - | - | - | - | - | - | - | - | - | - | - |
| Iowa | - | - | 2.76% | - | - | - | - | - | - | - | - | - | - | - | - |
| Totals | 374 | | | 29 | 11 | 6 | 71 | 114 | 11 | 11 | 13 | 19 | 70 | 14 | 5 |

THE EMPLOYED 1961 GRADUATES ARE NOW EMPLOYED BY THE FOLLOWING TYPES OF COMPANIES

| Type of Company | All Engineers | Percent | 1971 Average Salary | Aero. E. | Ag. E. | Ceram. E. | Civil E. | E. E. | E. Mech. | E. Phys. | G. E. | I. E. | M. E. | Met. E. | Min. E. |
|-----------------------------------|---------------|---------|---------------------|----------|--------|-----------|----------|-------|----------|----------|-------|-------|-------|---------|---------|
| Aircraft, Missile, & Space | 53 | 14.18% | \$1449. | 19 | - | - | - | 19 | 1 | 1 | - | - | 10 | 3 | - |
| Data Processing | 29 | 7.75% | 1631. | 1 | 1 | - | - | 21 | - | - | 2 | 1 | 3 | - | - |
| Federal Government | 26 | 6.95% | 1561. | 3 | 1 | - | 7 | 7 | 1 | 1 | 1 | 1 | 4 | - | - |
| Schools | 23 | 6.15% | 1319. | - | 1 | 1 | 4 | 5 | 2 | 5 | - | 2 | 3 | - | - |
| Consulting Engrs. | 21 | 5.61% | 1382. | - | - | - | 16 | 2 | - | - | 1 | - | 2 | - | - |
| Electrical Equipment | 19 | 5.08% | 1500. | - | - | 1 | 1 | 5 | 1 | 1 | 1 | 1 | 7 | - | 1 |
| Automobile & Automotive Equipment | 18 | 4.81% | 1481. | - | 2 | - | - | 3 | 1 | - | 2 | 1 | 7 | 2 | - |
| Electronics | 18 | 4.81% | 1515. | - | - | 2 | - | 13 | - | - | - | 1 | 2 | - | - |
| Construction & Building Materials | 17 | 4.55% | 1551. | - | - | - | 13 | 2 | - | - | 1 | - | 1 | - | - |
| Research Laboratories | 17 | 4.55% | 1508. | 1 | - | 1 | - | 7 | 2 | 2 | - | - | 2 | 2 | - |
| State Government | 15 | 4.01% | 1352. | - | 1 | - | 14 | - | - | - | - | - | - | - | - |
| Metals & Metal Products | 14 | 3.74% | 1374. | - | - | - | 1 | 1 | 1 | - | 1 | 1 | 2 | 6 | 1 |
| Communications Equipment | 13 | 3.48% | 1426. | - | - | - | 1 | 12 | - | - | - | - | - | - | - |
| Controls & Instrumentation | 11 | 2.94% | 1333. | - | - | - | - | 7 | 1 | - | - | 2 | 1 | - | - |

(Continued on following page.)

THE EMPLOYED 1961 GRADUATES ARE NOW EMPLOYED BY THE FOLLOWING TYPES OF COMPANIES (continued)

| Type of Company | All Engineers | Percent | 1971 Average Salary | Aero. E. | Ag. E. | Ceram. E. | Civil E. | E. E. | E. Mech. | E. Phys. | G. E. | I. E. | M. E. | Met. E. | Min. E. |
|-------------------------------------|---------------|---------|---------------------|-------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|
| Public Utilities | 9 | 2.41% | \$1484. | - | - | - | 1 \$1650. | 4 \$1371. | - | - | - | 2 \$1625. | 2 \$1485. | - | - |
| Chemical & Chemical Products | 8 | 2.14% | 1466. | - | - | - | - | 1 1275. | - | 1 \$2300. | - | 2 1113. | 4 1336. | - | - |
| City & County Governments | 8 | 2.14% | 1439. | - | - | - | 8 1438. | - | - | - | - | - | - | - | - |
| Heating & Air Conditioning | 6 | 1.60% | 1645. | - | - | - | 2 1490. | - | 1 \$1200. | - | - | 1 1260. | 2 2215. | - | - |
| Petroleum | 6 | 1.60% | 1717. | - | - | - | - | - | - | - | 1 \$3500. | - | 2 1563. | 1 \$1320. | 2 \$1178. |
| Transportation | 5 | 1.34% | 1369. | 1 \$442. | 1 \$1817. | - | 1 1085. | - | - | - | 2 1750. | - | - | - | - |
| Food | 4 | 1.07% | 1304. | - | - | - | 1 1190. | - | - | - | - | - | 3 1342. | - | - |
| Heavy Construction Equipment | 4 | 1.07% | 1172. | - | 3 1171. | - | - | - | - | - | - | - | 1 1175. | - | - |
| Materials Handling Equipment | 4 | 1.07% | 1157. | 1 1100. | 1 1070. | - | - | - | - | - | - | - | 2 1229. | - | - |
| Banking & Finance | 3 | .80% | 1450. | - | - | - | - | 2 1550. | - | - | 1 1250. | - | - | - | - |
| Law Firm | 3 | .80% | 2291. | - | - | - | - | 1 2050. | - | - | - | - | 2 2413. | - | - |
| Leisure Time & Entertainment Equip. | 3 | .80% | 1239. | 1 1500. | - | - | - | 1 1416. | - | - | - | 1 800. | - | - | - |
| Insurance | 2 | .53% | 950. | 1 900. | - | - | - | - | - | - | - | 1 1000. | - | - | - |
| Machine Tools | 2 | .53% | 1458. | - | - | - | - | - | - | - | - | 1 1250. | 1 1666. | - | - |
| Paper | 2 | .53% | 1235. | - | - | 1 \$1100. | - | - | - | - | - | - | 1 1370. | - | - |

(Continued on following page.)

THE EMPLOYED 1961 GRADUATES ARE NOW EMPLOYED BY THE FOLLOWING TYPES OF COMPANIES (Continued)

| Type of Company | All Engineers | Percent | 1971 Average Salary | Aero. E. | Ag. E. | Ceram. E. | Civil E. | E. E. | E. Mech. | E. Phys. | G. E. | I. E. | M. E. | Met. E. | Min. E. |
|------------------------------|---------------|---------|---------------------|--------------|--------|-----------|--------------|--------------|----------|----------|-------|--------------|--------------|---------|--------------|
| Retailing | 2 | .53% | \$1005. | - | - | - | - | 1 \$ 510. | - | - | - | - | 1 \$1500. | - | - |
| Glass | 1 | .27% | 1285. | - | - | - | - | - | - | - | - | - | 1 1285. | - | - |
| Management Consultant | 1 | .27% | 1533. | - | - | - | - | - | - | - | - | - | 1 1533. | - | - |
| Nuclear Power | 1 | .27% | 1200. | - | - | - | - | - | - | - | - | - | 1 1200. | - | - |
| Packaging | 1 | .27% | 1600. | - | - | - | - | - | - | - | - | 1 \$1600. | - | - | - |
| Real Estate | 1 | .27% | 1800. | - | - | - | 1 \$1800. | - | - | - | - | - | - | - | - |
| Ship Building | 1 | .27% | 1830. | - | - | - | - | - | - | - | - | - | 1 1830. | - | - |
| Printing | 1 | .27% | 1667. | - | - | - | - | - | - | - | - | - | - | - | 1 \$1667. |
| Cattle Feed | 1 | .27% | 7500. | 1 \$7500. | - | - | - | - | - | - | - | - | - | - | - |
| Manufacturers Representative | 1 | .27% | 1167. | - | - | - | - | - | - | - | - | - | 1 1167. | - | - |
| Totals | 374 | 100.00% | | 29 | 11 | 6 | 71 | 114 | 11 | 11 | 13 | 19 | 70 | 14 | 5 |

SIZE OF ORGANIZATIONS IN WHICH THE 1961 GRADUATES ARE NOW EMPLOYED

| | All Engineers | Aero. E. | Ag. E. | Ceram. E. | Civil E. | E. E. | E. Mech. | E. Phys. | G. E. | I. E. | M. E. | Met. E. | Min. E. |
|--------------------------------|------------------------|----------------------|----------------------|---------------------|------------------------|----------------------|-----------------------|---------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|
| Total Employed | 374 | 29 | 11 | 6 | 71 | 114 | 11 | 11 | 13 | 19 | 70 | 14 | 5 |
| 0-50 Employees | 43 11.5% \$1685. | 1 3.5% \$7500. | 1 9.1% \$2000. | - | 17 23.9% \$1344. | 6 5.3% \$1663. | 2 18.1% \$1600. | - | 3 23.1% \$2278. | 2 10.5% \$1255. | 8 11.4% \$1671. | 2 14.3% \$1409. | 1 20.0% \$1410. |
| 51-150 Employees | 23 6.1% 1300. | - | - | - | 10 14.1% 1513. | 6 5.3% 1329. | - | 1 9.1% 1400. | 1 7.7% 2500. | - | 4 5.7% 1458. | - | 1 20.0% 1667. |
| 151-500 Employees | 37 9.9% 1419. | 3 10.3% 1523. | 3 27.3% 1143. | - | 12 16.9% 1348. | 11 9.6% 1602. | - | 1 9.1% 1325. | - | 2 10.5% 1263. | 5 7.1% 1025. | - | - |
| 501-5,000 Employees | 111 29.7% 1391. | 9 31.0% 1418. | 3 27.3% 1506. | 4 66.7% 1256. | 20 28.2% 1373. | 32 28.1% 1433. | 4 36.4% 1370. | 7 63.6% 1513. | 1 7.7% 1250. | 6 31.6% 1276. | 20 28.6% 1359. | 5 35.7% 1317. | - |
| 5,000 - 10,000 Employees | 32 8.6% 1475. | 3 10.3% 1397. | - | 1 16.6% 1450. | 3 4.2% 1395. | 11 9.6% 1492. | 1 9.1% 2100. | 1 9.1% 1517. | - | 1 5.3% 1500. | 10 14.3% 1465. | - | 1 20.0% 1200. |
| Over 10,000 Employees | 128 34.2% 1500. | 13 44.9% 1369. | 4 36.3% 1263. | 1 16.7% 1830. | 9 12.7% 1532. | 48 42.1% 1539. | 4 36.4% 1370. | 1 9.1% 1800. | 8 61.5% 1670. | 8 42.1% 1429. | 23 32.9% 1566. | 7 50.0% 1280. | 2 40.0% 1265. |

THE 374 RESPONDING, EMPLOYED ENGINEERING GRADUATES ARE NOW EMPLOYED BY THE FOLLOWING COMPANIES

| | |
|---|------------------------------------|
| Admiral Corporation | 1 E.E. |
| Aid Association for Lutherans | 1 A.A.E. |
| Airborne Instruments Laboratory | 1 E.E. |
| Richard P. Albert | 1 E.E. |
| Allis-Chalmers | 1 M.E. |
| J.J. Altman and Company | 1 C.E. |
| Aluminum Company of America | 1 Met.E. |
| Alvord, Burdick & Howson Engineers | 1 C.E. |
| Amdahl Corporation | 1 E.E. |
| American Airlines Inc. | 1 G.E. |
| American Can Company | 1 I.E. |
| American Dental Association | 1 Met.E. |
| American Electric Power Service Corporation | 1 E.E. |
| American Express | 1 E.E. |
| American Motors Corporation | 1 G.E. |
| American National Bank & Trust Company of Chicago | 1 G.E. |
| American Van Tongeren | 1 E.M. |
| Analysts International Corporation | 1 E.E. |
| Arcole Midwest Corporation | 1 C.E. |
| Argonne National Laboratory | 2 E.E. |
| Arkwright Boston Insurance Company | 1 I.E. |
| Avco Systems Division | 1 A.A.E. |
| Badger Manufacturing Company | 1 M.E. |
| Barber-Colman Company | 1 E.E. |
| Battelle Memorial Institute | 1 Met.E. |
| Baxter Laboratories | 1 I.E. |
| Bechtel Corporation | 1 C.E. |
| Beechcraft | 1 A.A.E. |
| Bell Aerospace Company | 1 E.E. |
| Bell & Howell | 1 E.E. |
| Bell System: (12) | |
| Bell Laboratories | 2 E.E., 1 E.M., 2 E.P. |
| Illinois Bell Telephone Company | 1 C.E., 1 E.E., 2 I.E. |
| Teletype Corporation | 1 E.E. |
| Western Electric Company | 2 E.E. |
| Alfred Benesch & Company | 1 C.E. |
| Brian Berg & Associate | 1 M.E. |
| Blackstone Valley Electric | 1 E.E. |
| Boeing Company | 2 A.A.E., 2 E.E., 1 M.E., 1 Met.E. |
| Borg-Warner | 1 C.E., 1 E.E. |
| Boy Scouts of America | 1 I.E. |
| Brand & MacMiller | 1 M.E. |
| California Department of Highways & Bridges | 2 C.E. |
| California Department of Public Works | 1 C.E. |

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|--|--|
| Carnegie-Mellon University | 1 E.P. |
| Cassis Associates, Incorporated | 1 G.E. |
| Caterpillar Tractor Company | 1 Ag.E. |
| Charmin Paper Products | 1 Cer.E. |
| Chicago Metropolitan Sanitary District | 1 C.E. |
| Chrysler Corporation | 1 A.A.E. |
| City of Chicago | 1 C.E. |
| City of Memphis | 1 C.E. |
| City of Park Ridge | 1 C.E. |
| City of Torrance | 1 C.E. |
| Clark, Dietz, & Associates, Engineers | 1 C.E. |
| Cohen & Dippell | 1 E.E. |
| Collins & Rice, Incorporated | 1 C.E. |
| Commonwealth Edison Company | 1 E.E. |
| Computer Hardware Consultants & Services | 1 E.E. |
| Computer Memory Devices | 1 M.E. |
| Computer Sciences Corporation | 1 A.A.E. |
| Container Corporation of America | 1 M.E. |
| Control Data Corporation | 2 E.E., 1 I.E. |
| Control Engineering & Systems Company | 1 G.E. |
| Conveyor Systems, Incorporated | 1 M.E. |
| Cornell University | 1 M.E. |
| L.M. Cox Manufacturing Company | 1 A.A.E. |
| CTS Microelectronics, Incorporated | 1 Cer.E. |
| Cummins Engine Company | 1 M.E. |
| Dames & Moore | 1 C.E. |
| Deere & Company | 1 M.E. |
| Diamond Building Corporation | 1 C.E. |
| Diebold Incorporated | 1 E.E. |
| Dravo Corporation | 1 C.E., 1 M.E. |
| Duke University | 1 E.M. |
| Eastman Kodak Company | 1 E.P., 1 I.E., 1 M.E. |
| Eaton Corporation, Control Division | 1 E.M. |
| Ekco Products Incorporated | 1 I.E. |
| Emerson Electric Company | 1 M.E. |
| Fargo Engineering Company | 1 C.E. |
| Farnsworth & Wylie Consulting Engineers | 1 C.E. |
| Federal Aviation Administration | 1 E.E. |
| FMC Corporation | 1 M.E. |
| FMC Corporation, Bolens Division | 1 C.E. |
| FMC Corporation, Link Belt Division | 1 A.A.E. |
| Ford Motor Company | 1 E.E., 1 G.E. |
| Foxboro Company | 1 M.E. |
| General Dynamics: (3) | |
| Convair Aero Division | 1 A.A.E., 1 E.E. |
| Electro Dynamics Division | 1 E.E. |
| General Electric Company | 1 A.A.E., 1 Cer.E., 5 E.E., 1 E.M., 1 I.E., 1 M.E., 1 Met. E. |

| | |
|--|---------------------------|
| General Motors: (4) | |
| Delco Products Division | 1 E.E. |
| Guide Lamp Division | 1 I.E. |
| Hyatt Division | 1 M.E. |
| Saginaw Steering Gear Division | 1 E.E. |
| General Railway Signal | 1 I.E. |
| General Telephone Automatic Electric Company | 4 E.E. |
| Gerson Electric Construction Company | 1 E.E. |
| Gibson Electric Company | 1 E.E. |
| Golconda Corporation | 1 E.M. |
| Granger Associates | 1 E.E. |
| Ralph Hahn & Associates | 1 C.E. |
| Hahn, Wise & Associates | 1 C.E. |
| Hallicrafters | 1 E.E. |
| Hamilton Humidity Incorporated | 1 M.E. |
| Walter E. Hanson Company | 1 C.E. |
| Hansvedt Engineering, Incorporated | 1 I.E. |
| Hughes Air West Airlines | 1 M.E. |
| Humble Oil and Refining Company | 1 Min.E. |
| Hunzeker Trane Service | 1 M.E. |
| Ben Hur Construction Company | 1 E.E. |
| Illinois Department of Public Works | 1 C.E. |
| Illinois Division of Highways | 9 C.E. |
| Illinois Institute of Technology | 2 M.E. |
| Illinois Power Company | 1 M.E. |
| State of Illinois | 1 C.E. |
| Imperial Valley College | 1 E.E. |
| Ingersoll Rand Company | 1 M.E. |
| Inland Motor | 1 E.E. |
| International Business Machines | 8 E.E., 2 G.E., 2 M.E. |
| International Harvester | 1 Ag.E., 1 M.E., 1 Met.E. |
| International Nickel Company | 1 Met.E. |
| Interstate Electronics Corporation | 1 E.E. |
| Itek Corporation | 1 E.E. |
| Paul Jacobson & Company | 1 G.E. |
| Jet Propulsion Laboratory | 1 E.E. |
| Kaiser Aluminum and Chemical Sales | 1 Met.E. |
| A.T. Kearney & Company | 1 M.E. |
| Kenny Construction Company | 1 C.E. |
| Lawrence Radiation Laboratory | 1 M.E. |
| Lee County | 1 C.E. |
| Libby, McNeil & Libby | 1 M.E. |
| Liquid Metals Engineering Center | 1 A.A.E. |
| Littlefuse Incorporated | 1 E.E. |
| Litton Datalog Systems | 1 G.E. |
| Litton Ship Systems | 1 M.E. |
| Lockheed Missile & Space Company | 1 E.E. |
| Lockwood-Greene Engineers, Incorporated | 1 E.E. |

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| Los Alamos Scientific Laboratory | 1 E.P. |
| Los Angeles County Road Department | 1 C.E. |
| Louisiana State University | 1 Cer.E. |
| LTV Aerospace Corporation | 1 E.E. |
| Marsh Instruments | 1 I.E. |
| Martin-Marietta Corporation | 1 E.E., 1 M.E. |
| Masonite Corporation | 1 M.E. |
| Massachusetts Institute of Technology | 1 E.E. |
| Massey Ferguson Incorporated | 1 Ag.E. |
| McDonnell-Douglas Corporation: (13) | |
| Clear Lake, Iowa | 1 E.E. |
| Huntington Beach | 1 A.A.E., 1 E.E., 1 E.M. |
| Long Beach | 2 A.A.E. |
| Santa Monica | 2 A.A.E., 1 M.E. |
| St. Louis | 3 A.A.E., 1 M.E. |
| Meece Engineering | 1 C.E. |
| Miles Laboratory, Marshall Division | 1 M.E. |
| Miller Building Corporation | 1 C.E. |
| Miller Freeman Publications | 1 Min.E. |
| Minnesota, Mining, & Manufacturing | 1 I.E. |
| Mirza Engineering, Incorporated | 1 C.E. |
| Mobile Research & Development | 1 Met.E. |
| Motorola, Incorporated: (6) | |
| Franklin Park | 1 E.E. |
| Schaumburg | 2 E.E. |
| Semiconductor Division, Phoenix | 2 E.E. |
| Washington, D.C. | 1 E.E. |
| John Munson Jr. Construction | 1 C.E. |
| N.A.S.A.: (3) | |
| Ames Research Center | 1 E.E. |
| Kennedy Space Center | 1 M.E. |
| Langley Research Center | 1 E.E. |
| National Accelerator Laboratory | 1 E.E. |
| National Cash Register Company | 1 Ag.E. |
| North American Rockwell: (5) | |
| Autonetics Division | 2 E.E., 1 Met.E. |
| Columbus Division | 1 A.A.E. |
| Electronics Division | 1 E.E. |
| Northern Air Incorporated | 1 C.E. |
| Nuclear Chicago | 1 E.E. |
| Ohio Energy Systems, Incorporated | 1 M.E. |
| W.E. O'Neil Construction Company | 1 C.E. |
| Oregon Steel Mills | 1 Met.E. |
| Pacific Fruit Express Company | 1 C.E. |
| Pan American | 1 G.E. |
| Panoramic Corporation, Sintered Specialties Division | 1 Met.E. |
| PEK, Incorporated | 1 E.P. |
| Peterson Enterprises, Incorporated | 1 Min.E. |

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|---|--------------------------|
| Pettibone Corporation | 1 Ag.E. |
| Philco-Ford | 1 E.P. |
| Pioneer Service & Engineering Company | 1 C.E., 1 M.E. |
| Polymer Corporation | 1 E.E. |
| Powers Regulator Company | 1 E.E. |
| PPG Industries | 1 M.E. |
| Prince, Shoenberg & Fisher | 1 M.E. |
| Punta Gorda Isles, Incorporated | 1 C.E. |
| Purdue University | 1 I.E. |
| Radio Corporation of America | 1 E.E. |
| Ragnar, Benson Incorporated | 1 C.E. |
| Rapistan | 1 M.E. |
| Reynolds Metals Company | 1 Met.E. |
| A.D. Ring & Associates | 1 E.E. |
| Riverside Research Institute | 1 E.E. |
| Rochester Institute of Technology | 1 E.E. |
| Rockwell Manufacturing Company | 1 M.E. |
| Rosemount Engineering Company | 1 E.E. |
| S & C Electric Company | 1 M.E. |
| Sangamo Electric Company | 1 E.E., 1 M.E. |
| Scott County Highway Department | 1 C.E. |
| Shell Oil Company | 2 M.E., 1 Min.E. |
| Sierracin Corporation | 1 E.E. |
| Somes-Nick & Company | 1 M.E. |
| Spancrete of California | 1 C.E. |
| A.E. Staley Manufacturing Company | 1 M.E. |
| Stanford Research Institute | 1 E.E. |
| Starline Incorporated | 1 Ag.E. |
| Stop & Shop Company, Incorporated | 1 C.E. |
| Storage Technology Corporation | 1 E.E. |
| Levi Strauss & Company | 1 M.E. |
| Strescon Industries | 1 C.E. |
| Sunbeam Corporation | 1 M.E. |
| Sundstrand Aviation | 2 A.A.E., 1 M.E. |
| Surface Freight Corporation | 1 A.A.E. |
| Teledyne | 1 E.E. |
| Texas A & I University | 1 E.P. |
| Texas Instruments | 1 Cer.E., 1 E.E. |
| Texas Water Development Board | 1 Ag.E. |
| Timken Company | 1 G.E. |
| Toriette Land & Cattle Company | 1 A.A.E. |
| Trane Company | 1 C.E. |
| Transport Systems Company | 1 E.M. |
| Triton Community College | 1 C.E. |
| TRW Systems | 1 A.A.E., 2 E.E., 1 M.E. |
| Union Carbide Corporation | 2 M.E. |
| Uniroyal Incorporated | 1 M.E. |
| United Aircraft Company Research Laboratories | 1 Cer.E., 1 E.M. |

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| U.S. Government: (18) | |
| Department of Agriculture | 1 Ag.E. |
| Air Force | 1 M.E. |
| Air Force - Aeronautical Systems Division | 1 A.A.E. |
| Air Force - Special Weapons Center | 1 E.E. |
| Army Corps of Engineers | 4 C.E. |
| Army Engineer Waterways Experiment Station | 1 C.E. |
| Army Materiel Command | 1 M.E. |
| Atomic Energy Commission | 1 E.M. |
| Marine Corps, Naval Air Rework Facility | 1 A.A.E. |
| Naval Avionics Facility | 1 I.E. |
| Naval Facilities Engineering Command | 1 C.E. |
| Naval Research Laboratory | 1 A.A.E. |
| Naval Ships Engineering Center | 1 E.E. |
| Navy Ships System Command | 1 G.E. |
| Securities and Exchange Commission | 1 C.E. |
| U.S. Steel Corporation | 1 M.E. |
| Univac | 4 E.E. |
| Universal Oil Products Company | 1 M.E. |
| Universal Technical Institute | 1 M.E. |
| University of California | 1 E.E. |
| University of Connecticut | 1 C.E., 1 E.E. |
| University of Illinois: (4) | |
| Urbana | 1 C.E., 1 E.P., 1 I.E. |
| Chicago Circle | 1 E.M. |
| University of Maryland | 1 Ag.E. |
| University of Missouri at Rolla | 1 C.E. |
| University of North Dakota | 1 E.P. |
| University of Notre Dame, Radiation Laboratory | 1 E.E. |
| University of Texas | 1 E.P. |
| Wabco | 1 Ag.E. |
| Waco Scaffold & Shoring Company | 1 C.E. |
| Elton A. Wagner Company | 1 C.E. |
| Walker Manufacturing Company | 1 Met.E. |
| Wang Laboratories Incorporated | 1 E.E. |
| Warner Electric Brake & Clutch | 1 E.E. |
| Warren & Van Praag, Incorporated | 1 C.E. |
| Weisfields, Incorporated | 1 E.E. |
| Wescom, Incorporated | 1 E.E. |
| Westinghouse Electric Corporation | 1 C.E., 4 E.E., 1 M.E. |
| White Motors Corporation | 1 M.E. |
| Whittaker Precision Forge | 1 Met.E. |
| Williams Brothers Pipe Line Company | 1 Ag.E. |
| Wisconsin Power & Light | 1 M.E. |
| Worcester Air Conditioning | 1 I.E. |
| Xerox Data Systems | 1 E.E. |
| Zenith Radio Corporation | 1 M.E. |

PRESENT FIELD OF PRIMARY RESPONSIBILITY

| Field | All Engineers | Percent | Average Salary 1971 | Aero. E. | Ag. E. | Ceram. E. | Civil E. | E. E. | E. Mech. | E. Phys. | G. E. | I. E. | M. E. | Met. E. | Min. E. |
|-----------------------------|---------------|---------|---------------------|----------|--------|-----------|----------|-------|----------|----------|-------|-------|-------|---------|---------|
| Management & Administration | 73 | 19.52% | \$1577. | 2 | 1 | - | 17 | 21 | 1 | - | 5 | 6 | 16 | 3 | 1 |
| Project Engineering | 41 | 10.96% | 1312. | 3 | 4 | - | 9 | 12 | 2 | - | - | 1 | 9 | 1 | - |
| Design | 38 | 10.16% | 1364. | 3 | 2 | - | 8 | 14 | 3 | - | - | - | 8 | - | - |
| Development | 34 | 9.09% | 1421. | 3 | - | 1 | - | 14 | 1 | - | - | 2 | 7 | 4 | 2 |
| Systems Engineering | 29 | 7.75% | 1484. | 7 | 1 | - | - | 14 | - | 2 | 1 | 1 | 3 | - | - |
| Research | 28 | 7.49% | 1497. | 3 | 1 | 3 | 2 | 11 | 1 | 3 | - | - | 3 | 1 | - |
| Sales | 23 | 6.15% | 1377. | 1 | 1 | - | 3 | 8 | - | - | 2 | 2 | 5 | - | 1 |
| Teaching | 21 | 5.61% | 1334. | - | 1 | 1 | 4 | 4 | 2 | 4 | - | 2 | 3 | - | - |
| Construction | 13 | 3.48% | 1379. | 1 | - | - | 10 | 2 | - | - | - | - | - | - | - |
| Consulting Engineering | 12 | 3.21% | 1382. | - | - | - | 6 | 3 | - | - | - | - | 3 | - | - |
| Company Owner | 10 | 2.67% | 2482. | 1 | - | - | 6 | - | 1 | - | 1 | 1 | - | - | - |
| Marketing & Market Research | 8 | 2.14% | 1551. | 2 | - | - | - | 2 | - | 1 | - | 1 | 2 | - | - |
| Testing | 8 | 2.14% | 1455. | 1 | - | - | 1 | 3 | - | 1 | - | - | 1 | 1 | - |
| Data Processing | 7 | 1.87% | 1693. | 1 | - | - | 1 | 2 | - | - | 1 | 1 | 1 | - | - |
| Field Engineering | 7 | 1.87% | 1326. | 1 | - | - | 2 | 1 | - | - | - | 1 | - | 2 | - |
| Manufacturing | 6 | 1.60% | 1194. | - | - | 1 | 1 | - | - | - | - | 1 | 1 | 2 | - |

(Continued on following page.)

PRESENT FIELD OF PRIMARY RESPONSIBILITY (Continued)

| Field | All Engineers | Percent | Average Salary 1971 | Aero. E. | Ag. E. | Ceram. E. | Civil E. | E. E. | E. Mech. | E. Phys. | G. E. | I. E. | M. E. | Met. E. | Min. E. |
|-------------|---------------|---------|---------------------|----------|--------|-----------|--------------|--------------|----------|----------|--------------|-------|--------------|---------|--------------|
| Patent Law | 5 | 1.34% | \$1563. | - | - | - | 1 \$1525. | 3 \$1850. | - | - | - | - | 1 \$3000. | - | - |
| Production | 5 | 1.34% | 1489. | - | - | - | - | - | - | - | 1 \$1810. | - | 3 1408. | - | 1 \$1410. |
| Service | 4 | 1.07% | 1870. | - | - | - | - | - | - | - | 1 1700. | - | 3 1926. | - | - |
| Maintenance | 1 | .27% | 1300. | - | - | - | - | - | - | - | - | - | 1 1300. | - | - |
| Pilot | 1 | .27% | 1800. | - | - | - | - | - | - | - | 1 1800. | - | - | - | - |
| Totals | 374 | 100.00% | | 29 | 11 | 6 | 71 | 114 | 11 | 11 | 13 | 19 | 70 | 14 | 5 |

PRESENT LEVEL OF RESPONSIBILITY

| | All Engineers | Supervise a Small Group | Individual in a Group | Manage Major Group or Department | Plant Manager or Superin- tendent | Top Executive | Branch Manager | Individual in Private Practice |
|----------------|------------------|-------------------------------|--------------------------|---|--|---------------------|---------------------|--------------------------------------|
| All Engineers | 374 | 131 | 126 | 83 | 12 | 11 | 7 | 4 |
| Percent | | 35.03% | 33.69% | 22.19% | 3.21% | 2.94% | 1.87% | 1.07% |
| Average Salary | | \$1439. | \$1371. | \$1584. | \$1439. | \$2456. | \$1425. | \$1544. |
| Aero. E. | 29 | 6 20.68% 1427. | 18 62.07% 1323. | 2 6.90% 1576. | - | 1 3.45% 7500. | 2 6.90% 1900. | - |
| Ag. E. | 11 | 7 63.64% 1418. | 3 27.27% 1204. | 1 9.09% 1460. | - | - | - | - |
| Ceram. E. | 6 | 4 66.66% 1557. | 1 16.67% 975. | 1 16.67% 1100. | - | - | - | - |
| Civil E. | 71 | 29 40.84% 1247. | 9 12.68% 1395. | 19 26.76% 1512. | 5 7.04% 1451. | 6 8.45% 1795. | 1 1.41% 1380. | 2 2.82% 1463. |
| E. E. | 114 | 40 35.08% 1505. | 39 34.21% 1358. | 32 28.07% 1679. | 1 .88% 1600. | - | 1 .88% 1230. | 1 .88% 2050. |
| E. Mech. | 11 | 2 18.18% 1125. | 8 72.73% 1501. | - | - | 1 9.09% 2000. | - | - |
| E. Phys. | 11 | 3 27.27% 1351. | 7 63.64% 1469. | 1 9.09% 2300. | - | - | - | - |
| G. E. | 13 | 1 7.69% 3500. | 6 46.16% 1633. | 5 38.46% 1629. | - | 1 7.69% 2500. | - | - |
| I. E. | 19 | 5 26.33% 1420. | 7 36.84% 1318. | 4 21.05% 1388. | 1 5.26% 1500. | 1 5.26% 1250. | 1 5.26% 1000. | - |
| M. E. | 70 | 29 41.43% 1506. | 19 27.14% 1360. | 16 22.85% 1528. | 2 2.86% 1566. | 1 1.43% 3000. | 2 2.86% 1284. | 1 1.43% 1200. |
| Met. E. | 14 | 5 35.72% 1365. | 6 42.86% 1282. | 1 7.14% 1475. | 2 14.28% 1185. | - | - | - |
| Min. E. | 5 | - | 3 60.00% 1341. | 1 20.00% 1375. | 1 20.00% 1410. | - | - | - |

HOW MANY ENGINEERS AND SCIENTISTS WORK IN THE ORGANIZATIONAL UNIT
TO WHICH YOU BELONG IN YOUR CURRENT MAJOR POSITION?

| | All Engineers | Aero. E. | Ag. E. | Ceram. E. | Civil E. | E. E. | E. Mech. | E. Phys. | G. E. | I. E. | M. E. | Met. E. | Min. E. |
|----------|------------------|-------------|------------|------------|--------------|--------------|------------|------------|-------------|------------|--------------|------------|------------|
| None | 33 8.82% | 3 9.09% | - - | - - | 7 21.22% | 5 15.15% | 1 3.03% | - - | 5 15.15% | 3 9.09% | 9 27.27% | - - | - - |
| 1-3 | 61 16.31% | 1 1.64% | 1 1.64% | 2 3.28% | 12 19.67% | 15 24.58% | 2 3.28% | 1 1.64% | 4 6.56% | 4 6.56% | 13 21.31% | 4 6.56% | 2 3.28% |
| 4-10 | 98 26.20% | 5 5.10% | 5 5.10% | 2 2.04% | 18 18.38% | 33 33.67% | 3 3.06% | 3 3.06% | 3 3.06% | 9 9.18% | 14 14.29% | 2 2.04% | 1 1.02% |
| 11-20 | 62 16.58% | 9 14.52% | 1 1.61% | 1 1.61% | 13 20.96% | 20 32.26% | 2 3.23% | 2 3.23% | - - | - - | 11 17.74% | 3 4.84% | - - |
| 21-50 | 53 14.17% | 4 7.55% | 3 5.65% | 1 1.89% | 9 16.98% | 20 37.74% | 1 1.89% | 3 5.65% | - - | 1 1.89% | 9 16.98% | 1 1.89% | 1 1.89% |
| 51-100 | 39 10.43% | 4 10.26% | - - | - - | 7 17.95% | 12 30.78% | 1 2.56% | 2 5.13% | - - | 1 2.56% | 8 21.51% | 3 7.69% | 1 2.56% |
| 101-300 | 17 4.55% | 2 11.77% | 1 5.88% | - - | 2 11.77% | 5 29.41% | 1 5.88% | - - | 1 5.88% | - - | 4 23.53% | 1 5.88% | - - |
| Over 300 | 11 2.94% | 1 9.09% | - - | - - | 3 27.28% | 4 36.36% | - - | - - | - - | 1 9.09% | 2 18.18% | - - | - - |
| Totals | 374 | 29 | 11 | 6 | 71 | 114 | 11 | 11 | 13 | 19 | 70 | 14 | 5 |

QUESTION CONCERNING THE VALUE OF ADDITIONAL DEGREES

QUESTION: Rank in order, the value (1, 2, 3) of additional degrees that you feel would be of the most value to you.

| | Order of Importance | | |
|--------------------------------|---------------------|--------------|---------------|
| | 1st | 2nd | 3rd |
| M.B.A. | 175 46.79% | 57 15.25% | 23 6.16% |
| Law | 35 9.36% | 79 21.12% | 45 12.03% |
| M.S. in Original Field | 44 11.76% | 41 10.96% | 46 12.30% |
| M.S. in Other Technical Field | 29 7.75% | 52 13.90% | 49 13.10% |
| Other ¹ | 33 8.82% | 29 7.75% | 49 13.10% |
| Ph.D. in Original Field | 20 5.35% | 22 5.88% | 25 6.68% |
| Ph.D. in Other Technical Field | 16 4.28% | 16 4.28% | 25 6.68% |
| No Choice Listed | 22 5.88% | 78 20.86% | 112 29.95% |
| Total | 374 | 374 | 374 |

¹While most of the respondents did not indicate a field, those who did mentioned the following: 5 Medical Doctor; 4 Ph.D. in Business Administration; 2 B.S. in other technical field; 2 Dentistry; 2 Finance

Others mentioned: Advertising, Computer Technology, Business Management, Ecology, Engineering Management, International Economics, Marketing, Management Motivation, Library Science, Operations Research, Mathematics, Ph.D. Economics, Personnel Administration, Professional Engineer, Public Administration, Psychology, and Water Resources.

QUESTIONS CONCERNING PRESENT POSITIONS AND ITS RELATION TO THEIR UNDERGRADUATE DEGREES

QUESTION: To hold your present position is it important for you to have an engineering degree?

| | | |
|-----|------------|--------|
| Yes | 315 | 84.23% |
| No | 59 | 15.77% |
| | <u>374</u> | |

QUESTION: How much knowledge and skill related to your undergraduate degree do you apply in your present position?

| | | |
|-------------|------------|--------|
| Most or all | 96 | 25.67% |
| Some | 178 | 47.59% |
| Very little | 91 | 24.33% |
| None | 9 | 2.41% |
| | <u>374</u> | |

QUESTION: On the average how many hours do you spend on your job each week?

| | | |
|------------------|------------|--------|
| 30 hours or less | 6 | 1.60% |
| 31-40 hours | 70 | 18.72% |
| 41-45 hours | 150 | 40.11% |
| 46-50 hours | 98 | 26.20% |
| 51 or more hours | 50 | 13.37% |
| | <u>374</u> | |

QUESTION: If you have not received an advanced degree and are not working toward one, do you feel that this has been a limiting factor in your progress with your company and in your work?

| | |
|----------------------------|------------|
| Yes | 18 |
| No | 200 |
| Did not answer question | <u>127</u> |
| | <u>345</u> |

The 18 respondents who answered yes gave the following reasons:

"Company policy to promote on basis of advanced degree."

"My primary field has been in research and development. I believe an advanced degree would have provided additional depth as well as improved credentials for this area."

"An advanced degree would provide greater ultimate potential."

"Limited, but large corporation management is overly impressed with advanced degrees."

"A higher degree would automatically increase my earning power and promotibility."

(Continued on following page.)

QUESTIONS CONCERNING PRESENT POSITIONS AND ITS RELATION TO THEIR UNDERGRADUATE DEGREES (Continued)

"Promotions would have come quicker."

"Company favors M.B.A. in management positions."

"I would be better prepared for management."

"The added prestige is a useful tool."

"Too many others just like me."

"Technical limitations."

"Technical advancement highly dependent upon highest degree obtained."

"Men with advanced degrees are given promotions first."

"Management positions are being filled by M.B.A.'s from outside."

"Advanced degree covers developments in field."

"Engineering basic discipline not adequate for sales."

"It is easier to gain acceptance of quality work with "club membership" to Ph.D. status."

One respondent answered yes to the question but gave no reason.

QUESTION CONCERNING UNDERGRADUATE CURRICULUM

QUESTION: If you had to do it all over again would you choose:

| | | |
|-------------------------|--------|--|
| 197 | 53.24% | A specialized undergraduate engineering curriculum (e.g. M.E., E.E., etc.) |
| 60 | 16.22% | A common undergraduate engineering curriculum (no specialization) |
| 57 | 15.41% | Another type of undergraduate professional curriculum (e.g. pre-law, pre-medicine, etc.) |
| 24 | 6.49% | A business administration curriculum |
| 18 | 4.86% | Another type of curriculum in mathematics or the physical sciences (e.g. physics, chemistry) |
| 9 | 2.43% | Other ² |
| 5 | 1.35% | A Liberal Arts curriculum |
| <u>370</u> ¹ | | |

¹4 respondents did not answer this question.

²4 no field mentioned

1 combination B.S. & B.A. Degree

1 combination G.E. and I.E. degree

1 Computer Science

1 engineering degree supplemented by business minor

1 Mathematics and Philosophy

QUESTION CONCERNING THE PLACEMENT SERVICE

Because of the controversy concerning campus recruiting over the past few years, the following question was asked:
"Do you feel that the University should provide a service such as that offered by the Placement Office?"

| | | |
|----------------|-----|--------|
| Yes | 364 | 97.33% |
| No | 8 | 2.14% |
| Did not answer | 2 | .53% |

QUESTIONS CONCERNING PROFESSIONAL DEVELOPMENT

QUESTION: Have you become registered as:

| | | |
|---------------------------|-----|--------|
| 1. Professional Engineer | 106 | 28.34% |
| 2. Engineer-in-Training | 71 | 18.98% |
| 3. Structural Engineer | 10 | 2.67% |
| 4. Surveyor | 5 | 1.34% |
| 5. No to all of the above | 206 | 55.08% |

Some of the 374 respondents indicated that they are registered in more than one category.

QUESTION: Have you participated in any company professional or management programs?

| | | |
|----------|-----------|--------|
| Yes | 226 | 60.43% |
| No | 137 | 36.63% |
| No reply | <u>11</u> | 2.94% |
| | 374 | |

QUESTION CONCERNING COMMUNITY PARTICIPATION

QUESTION: Have you held an office in any of the following organizations?

| | |
|-------------------------------------|-----|
| 1. Professional Organization | 76 |
| 2. School Board | 7 |
| 3. Church | 95 |
| 4. Service Clubs | 55 |
| 5. Boy Scouts or other youth groups | 60 |
| 6. Political | 15 |
| 7. None of the above | 173 |

3 0112 084224176



UNIVERSITY OF ILLINOIS-URBANA