2018 Workforce Survey Results

National Results

Total responses: 2552, but number varies by question. Percentages are based on responses other than “Don’t know” for each question.

1. In the next 12 months, do you expect your firm will hire additional or replacement:

<table>
<thead>
<tr>
<th></th>
<th>Yes, for expansion</th>
<th>Yes, for replacement only</th>
<th>No</th>
</tr>
</thead>
<tbody>
<tr>
<td>Hourly craft personnel</td>
<td>76%</td>
<td>39%</td>
<td>16%</td>
</tr>
<tr>
<td>Hourly office personnel</td>
<td>22%</td>
<td>22%</td>
<td>39%</td>
</tr>
<tr>
<td>Salaried field personnel</td>
<td>59%</td>
<td>16%</td>
<td>25%</td>
</tr>
<tr>
<td>Salaried office personnel</td>
<td>52%</td>
<td>20%</td>
<td>28%</td>
</tr>
</tbody>
</table>

2. How would you describe your current situation in filling salaried and hourly craft positions?

<table>
<thead>
<tr>
<th>Situation</th>
<th>Craft</th>
<th>Salaried</th>
</tr>
</thead>
<tbody>
<tr>
<td>We are having a hard time filling some or all positions</td>
<td>10%</td>
<td>56%</td>
</tr>
<tr>
<td>We are having no difficulty filling any positions</td>
<td>9%</td>
<td>14%</td>
</tr>
<tr>
<td>We have no openings for positions</td>
<td>29%</td>
<td></td>
</tr>
</tbody>
</table>
3. What has been your firm’s experience this year in filling the following types of salaried positions?

- **Project managers/supervisors (1989 firms)**
  - 49%: Compared to one year ago, filling position is more difficult
  - 12%: Compared to one year ago, filling position is the same
  - 8%: Compared to one year ago, filling position is less difficult
  - 30%: Hired without difficulty
  - 12%: Employ but didn’t try to hire this year

- **Engineers (720 firms)**
  - 38%: Compared to one year ago, filling position is more difficult
  - 16%: Compared to one year ago, filling position is the same
  - 12%: Compared to one year ago, filling position is less difficult
  - 33%: Hired without difficulty
  - 13%: Employ but didn’t try to hire this year

- **Estimating personnel (1893 firms)**
  - 36%: Compared to one year ago, filling position is more difficult
  - 12%: Compared to one year ago, filling position is the same
  - 7%: Compared to one year ago, filling position is less difficult
  - 45%: Hired without difficulty
  - 10%: Employ but didn’t try to hire this year

- **Quality control personnel (1196 firms)**
  - 31%: Compared to one year ago, filling position is more difficult
  - 10%: Compared to one year ago, filling position is the same
  - 7%: Compared to one year ago, filling position is less difficult
  - 51%: Hired without difficulty
  - 12%: Employ but didn’t try to hire this year

- **BIM personnel (493 firms)**
  - 25%: Compared to one year ago, filling position is more difficult
  - 14%: Compared to one year ago, filling position is the same
  - 14%: Compared to one year ago, filling position is less difficult
  - 46%: Hired without difficulty
  - 10%: Employ but didn’t try to hire this year

- **Architects (143 firms)**
  - 24%: Compared to one year ago, filling position is more difficult
  - 15%: Compared to one year ago, filling position is the same
  - 15%: Compared to one year ago, filling position is less difficult
  - 43%: Hired without difficulty
  - 16%: Employ but didn’t try to hire this year

- **Safety personnel (1594 firms)**
  - 22%: Compared to one year ago, filling position is more difficult
  - 10%: Compared to one year ago, filling position is the same
  - 12%: Compared to one year ago, filling position is less difficult
  - 55%: Hired without difficulty
  - 13%: Employ but didn’t try to hire this year

- **Environmental compliance professionals (452 firms)**
  - 20%: Compared to one year ago, filling position is more difficult
  - 12%: Compared to one year ago, filling position is the same
  - 10%: Compared to one year ago, filling position is less difficult
  - 57%: Hired without difficulty
  - 13%: Employ but didn’t try to hire this year

- **IT personnel (945 firms)**
  - 12%: Compared to one year ago, filling position is more difficult
  - 13%: Compared to one year ago, filling position is the same
  - 16%: Compared to one year ago, filling position is less difficult
  - 57%: Hired without difficulty
  - 10%: Employ but didn’t try to hire this year

- **Software/database personnel (583 firms)**
  - 12%: Compared to one year ago, filling position is more difficult
  - 11%: Compared to one year ago, filling position is the same
  - 13%: Compared to one year ago, filling position is less difficult
  - 62%: Hired without difficulty
  - 12%: Employ but didn’t try to hire this year
4. What has been your firm’s experience this year in filling the following types of hourly craft positions?

- Pipelayers (423 firms)
- Sheet metal workers (231 firms)
- Carpenters (1089 firms)
- Concrete workers (946 firms)
- Pipefitters/Welders (430 firms)
- Cement masons (555 firms)
- Installers-other (393 firms)
- Roofers (140 firms)
- Equipment operators-crane, heavy equipment (1167 firms)
- Installers-drywall (315 firms)
- Bricklayers (234 firms)
- Iron workers (404 firms)
- Plumbers (225 firms)
- Electricians (347 firms)
- Laborers (1747 firms)
- Truck drivers (1036 firms)
- Painters (236 firms)
- Mechanics (869 firms)
- Millwrights (228 firms)
- Traffic control personnel (439 firms)

Compared to one year ago, filling position is more difficult
Compared to one year ago, filling position is the same
Compared to one year ago, filling position is less difficult
Hired without difficulty
Employ but didn’t try to hire this year
5. Do you expect any changes in the availability of hourly craft or salaried personnel over the coming 12 months?

- It will become harder to hire: 41% (Hourly craft) vs. 26% (Salaried)
- It will continue to be hard to hire: 33% (Hourly craft) vs. 17% (Salaried)
- No change: 32% (Hourly craft) vs. 32% (Salaried)
- It will continue to be easy to hire: 1% (Hourly craft) vs. 1% (Salaried)
- It will become easier to hire: 1% (Hourly craft) vs. 1% (Salaried)

6. How would you rate the adequacy of the local pipeline for supplying craft personnel who are:

- Well trained/skilled: 47% (Poor) + 38% (Fair) + 13% (Good) + 2% (Excellent)
- Able to pass drug tests: 23% (Poor) + 47% (Fair) + 26% (Good) + 4% (Excellent)
- Able to pass background checks: 15% (Poor) + 49% (Fair) + 32% (Good) + 4% (Excellent)
7. Is your firm losing hourly craft or salaried personnel to other employers? (Totals may add to more than 100%, as respondents could mark more than one answer.)

8. Has your firm increased pay and/or benefits for hourly craft or salaried personnel in the last year because of difficulty in filling positions? (Totals may add to more than 100%, as respondents could mark more than one answer.)
9. Has your firm added or increased use of the following to provide workers in the past year? (Totals may add to more than 100%, as respondents could mark more than one answer.)

- Engaged with career-building program (e.g., high school, college, career & technical education) - 48%
- Staffing firm (craft) - 32%
- Executive and non-craft worker search firm or professional employer organization - 29%
- Sub- or specialty contractors - 28%
- Engaged with government workforce development or unemployment agency - 27%
- Unions - 23%
- Applied for employee-based visas (e.g., H-1B, H-2B) - 7%
- No changes - 21%

10. Has your firm made changes in hiring, training or scheduling to address worker or skill shortages in the past year? (Totals may add to more than 100%, as respondents could mark more than one answer.)

- Initiated or increased in-house training - 46%
- Interns - 33%
- Overtime - 30%
- Changed hiring standards (e.g., education, training, employment or arrest record) - 26%
- Augmented/mixed/virtual reality training devices - 9%
- No changes - 31%
11. Has your firm adopted or increased use of the following to replace workers or skills? (Totals may add to more than 100%, as respondents could mark more than one answer.)

- Methods to reduce onsite worktime (e.g., lean construction, virtual construction such as BIM, offsite fabrication): 25%
- Labor-saving equipment (e.g., drones, robots, 3-D printers, laser- or GPS-guided equipment): 25%
- Added specialists (e.g., architects, BIM or lean construction personnel, drone or other equipment operators, data or IT personnel): 12%
- No changes: 59%

12. If your firm is experiencing staffing challenges, how would you describe the impact on your projects? (Totals may add to more than 100%, as respondents could mark more than one answer.)

- We have put higher prices into our bids or contracts: 47%
- Projects have taken longer than we anticipated: 46%
- Costs have been higher than we anticipated: 44%
- We have put longer completion times into our bids or contracts: 27%
- Completion times or costs have been lower than we anticipated: 3%
- No impact: 16%
13. If your firm is experiencing staffing challenges, how would you describe the impact on your company's safety and health program or performance? (Totals may add to more than 100%, as respondents could mark more than one answer.)

- Increased number of reportable injuries and illnesses: 15%
- Increased number of jobsite hazards (physical and/or behavioral) identified in inspection reports: 14%
- Increased number of workers compensation claims: 10%
- No change: 70%
- Decreased number of reportable injuries and illnesses: 5%
- Decreased number of jobsite hazards (physical and/or behavioral) identified in inspection reports: 3%
- Decreased number of workers compensation claims: 3%

14. Please indicate which of the following types of construction projects your firm performs: (Totals may add to more than 100%, as respondents could mark more than one answer.)

- Building construction: 65%
- Highway and transportation: 29%
- Federal and heavy: 22%
- Utility infrastructure: 20%
- Other: 14%
15. When you self-perform construction work, do you operate as a union contractor or an open-shop contractor?

- We always operate as an open-shop contractor: 53%
- We primarily operate as an open-shop contractor, but not always: 7%
- We primarily operate as a union contractor, but not always: 6%
- We always operate as a union contractor: 26%
- We do not self-perform or directly hire craft personnel: 8%

16. How many total employees does your firm employ at all of its locations?

- 1-49: 35%
- 50-249: 39%
- 250-499: 13%
- 500-999: 6%
- 1,000 or more: 7%

17. Estimate the total dollar amount of work your firm performed during the past 12 months.

- $10 million or less: 29%
- $10.1 million-$50 million: 32%
- $50.1 million-$100 million: 15%
- $100.1 million-$500 million: 16%
- Over $500 million: 7%
18. What percent of your employees are in each of these categories?

- **Women**: 6% 0-10% category, 82% 26-50% category, 10% 76-99% category
- **Veterans**: 17% 0-10% category, 72% 51-75% category, 9% 76-99% category
- **People with Disabilities**: 61% 0-10% category, 39% 1-25% category
- **Formerly incarcerated individuals**: 38% 0-10% category, 56% 26-50% category, 5% 76-99% category
- **White, non-Hispanic**: 2% 0-10% category, 14% 26-50% category, 22% 76-99% category, 28% 100% category
- **African American**: 24% 0-10% category, 69% 51-75% category
- **Hispanic**: 17% 0-10% category, 46% 26-50% category, 18% 76-99% category
- **Asian**: 62% 0-10% category, 37% 76-99% category
- **Native Americans/indigenous groups**: 55% 0-10% category, 43% 76-99% category

0% 10% 20% 30% 40% 50% 60% 70% 80% 90% 100%