2018 Workforce Survey Results

Union Results

Total responses: 665, 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:

- Yes, for expansion
- Yes, for replacement only
- No

![Chart showing hiring expectations for different types of personnel.]

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

- We are having a hard time filling some or all positions
- We are having no difficulty filling any positions
- We have no openings for positions

![Chart showing job filling difficulties for different types of personnel.]

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**Visual Elements:**
- Bar charts and pie charts illustrating survey results.
- Graphs depicting hiring expectations and current job filling situations.

**Text Elements:**
- Introduction to the survey results.
- Explanation of the survey responses and how they were calculated.
- Specific questions and corresponding data for hiring expectations and current job filling situations.
3. What has been your firm’s experience this year in filling the following types of salaried positions?

<table>
<thead>
<tr>
<th>Position</th>
<th>Difficulty Compared to One Year Ago</th>
</tr>
</thead>
<tbody>
<tr>
<td>Project managers/supervisors (508 firms)</td>
<td>50% more difficult, 14% same, 9% less difficult, 27% not tried</td>
</tr>
<tr>
<td>Estimating personnel (501 firms)</td>
<td>43% more difficult, 12% same, 8% less difficult, 37% not tried</td>
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<tr>
<td>Engineers (213 firms)</td>
<td>42% more difficult, 15% same, 11% less difficult, 32% not tried</td>
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<tr>
<td>Quality control personnel (309 firms)</td>
<td>30% more difficult, 10% same, 8% less difficult, 52% not tried</td>
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<tr>
<td>BIM personnel (159 firms)</td>
<td>28% more difficult, 9% same, 13% less difficult, 49% not tried</td>
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<tr>
<td>Architects (24 firms)</td>
<td>25% more difficult, 8% same, 13% less difficult, 54% not tried</td>
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<tr>
<td>Environmental compliance professionals (109 firms)</td>
<td>25% more difficult, 17% same, 14% less difficult, 45% not tried</td>
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<tr>
<td>Safety personnel (441 firms)</td>
<td>25% more difficult, 8% same, 13% less difficult, 53% not tried</td>
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<tr>
<td>Software/database personnel (174 firms)</td>
<td>13% more difficult, 10% same, 15% less difficult, 61% not tried</td>
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<tr>
<td>IT personnel (278 firms)</td>
<td>11% more difficult, 16% same, 57% not tried</td>
</tr>
</tbody>
</table>

- Red: Compared to one year ago, filling position is more difficult
- Blue: Compared to one year ago, filling position is the same
- Green: Compared to one year ago, filling position is less difficult
- Orange: Hired without difficulty
- Purple: 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?

<table>
<thead>
<tr>
<th>Craft Position</th>
<th>0%</th>
<th>10%</th>
<th>20%</th>
<th>30%</th>
<th>40%</th>
<th>50%</th>
<th>60%</th>
<th>70%</th>
<th>80%</th>
<th>90%</th>
<th>100%</th>
</tr>
</thead>
<tbody>
<tr>
<td>Sheet metal workers (48 firms)</td>
<td>69%</td>
<td>13%</td>
<td>15%</td>
<td>4%</td>
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<tr>
<td>Pipelayers (85 firms)</td>
<td>65%</td>
<td>15%</td>
<td>14%</td>
<td>5%</td>
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<tr>
<td>Carpenters (327 firms)</td>
<td>65%</td>
<td>13%</td>
<td>15%</td>
<td>6%</td>
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<tr>
<td>Installers-other (63 firms)</td>
<td>63%</td>
<td>14%</td>
<td>13%</td>
<td>8%</td>
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<tr>
<td>Concrete workers (254 firms)</td>
<td>62%</td>
<td>13%</td>
<td>15%</td>
<td>9%</td>
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<tr>
<td>Installers-drywall (89 firms)</td>
<td>62%</td>
<td>17%</td>
<td>11%</td>
<td>9%</td>
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<tr>
<td>Pipefitters/Welders (86 firms)</td>
<td>62%</td>
<td>14%</td>
<td>15%</td>
<td>9%</td>
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<tr>
<td>Plumbers (49 firms)</td>
<td>61%</td>
<td>18%</td>
<td>18%</td>
<td>2%</td>
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<tr>
<td>Iron workers (101 firms)</td>
<td>58%</td>
<td>16%</td>
<td>18%</td>
<td>8%</td>
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<tr>
<td>Cement masons (182 firms)</td>
<td>58%</td>
<td>15%</td>
<td>15%</td>
<td>12%</td>
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<tr>
<td>Equipment operators-cranes, heavy equipment (286 firms)</td>
<td>58%</td>
<td>15%</td>
<td>14%</td>
<td>12%</td>
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<tr>
<td>Painters (47 firms)</td>
<td>57%</td>
<td>19%</td>
<td>13%</td>
<td>9%</td>
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<tr>
<td>Laborers (419 firms)</td>
<td>57%</td>
<td>17%</td>
<td>21%</td>
<td>5%</td>
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<td>Electricians (70 firms)</td>
<td>56%</td>
<td>9%</td>
<td>23%</td>
<td>13%</td>
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<tr>
<td>Bricklayers (65 firms)</td>
<td>55%</td>
<td>14%</td>
<td>15%</td>
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<tr>
<td>Roofers (23 firms)</td>
<td>52%</td>
<td>17%</td>
<td>26%</td>
<td>4%</td>
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<tr>
<td>Millwrights (66 firms)</td>
<td>52%</td>
<td>15%</td>
<td>9%</td>
<td>23%</td>
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<tr>
<td>Mechanics (196 firms)</td>
<td>49%</td>
<td>13%</td>
<td>9%</td>
<td>29%</td>
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<tr>
<td>Traffic control personnel (106 firms)</td>
<td>46%</td>
<td>16%</td>
<td>15%</td>
<td>23%</td>
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<tr>
<td>Truck drivers (242 firms)</td>
<td>45%</td>
<td>12%</td>
<td>13%</td>
<td>30%</td>
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</tbody>
</table>

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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: 43% (Hourly) 39% (Salaried)
- It will continue to be hard to hire: 33% (Hourly) 25% (Salaried)
- No change: 22% (Hourly) 35% (Salaried)
- It will continue to be easy to hire: 2% (Hourly) 1% (Salaried)
- It will become easier to hire: 1% (Hourly) 0% (Salaried)

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

- Well trained/skilled: 29% Poor, 45% Fair, 21% Good, 6% Excellent
- Able to pass drug tests: 15% Poor, 44% Fair, 33% Good, 8% Excellent
- Able to pass background checks: 7% Poor, 44% Fair, 42% Good, 7% 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.)

- Unions: 72%
- Engaged with career-building program (e.g., high school, college, career & technical education): 43%
- Executive and non-craft worker search firm or professional employer organization: 32%
- Sub- or specialty contractors: 18%
- Engaged with government workforce development or unemployment agency: 19%
- Staffing firm (craft): 12%
- Applied for employee-based visas (e.g., H-1B, H-2B): 11%
- No changes: 17%

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: 43%
- Interns: 41%
- Overtime: 27%
- Changed hiring standards (e.g., education, training, employment or arrest record): 18%
- Augmented/mixed/virtual reality training devices: 10%
- No changes: 33%
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): 29%
- Labor-saving equipment (e.g., drones, robots, 3-D printers, laser- or GPS-guided equipment): 28%
- Added specialists (e.g., architects, BIM or lean construction personnel, drone or other equipment operators, data or IT personnel): 15%
- No changes: 54%

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.)

- Costs have been higher than we anticipated: 43%
- We have put longer completion times into our bids or contracts: 41%
- Projects have taken longer than we anticipated: 36%
- We have put higher prices into our bids or contracts: 21%
- Completion times or costs have been lower than we anticipated: 3%
- No impact: 22%
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: 21%
- Increased number of jobsite hazards (physical and/or behavioral) identified in inspection reports: 18%
- Increased number of workers compensation claims: 15%
- No change: 63%
- Decreased number of reportable injuries and illnesses: 4%
- 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: 70%
- Highway and transportation: 32%
- Federal and heavy: 26%
- Utility infrastructure: 23%
- Other: 8%
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: 0%
- We primarily operate as an open-shop contractor, but not always: 0%
- We primarily operate as a union contractor, but not always: 0%
- We always operate as a union contractor: 100%
- We do not self-perform or directly hire craft personnel: 0%

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

- 1-49: 21%
- 50-249: 44%
- 250-499: 9%
- 500-999: 8%
- 1,000 or more: 8%

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

- $10 million or less: 17%
- $10.1 million-$50 million: 32%
- $50.1 million-$100 million: 17%
- $100.1 million-$500 million: 26%
- Over $500 million: 8%
18. What percent of your employees are in each of these categories?

- **Women**: 4% (0-25%), 82% (26-50%), 12% (51-75%), 100%
- **Veterans**: 11% (0-25%), 79% (26-50%), 10% (51-75%), 100%
- **People with Disabilities**: 58% (0-25%), 41% (26-50%), 100%
- **Formerly incarcerated individuals**: 41% (0-25%), 56% (26-50%), 2% (51-75%), 100%
- **White, non-Hispanic**: 3% (0-25%), 18% (26-50%), 42% (51-75%), 3% (100%)
- **African American**: 17% (0-25%), 79% (26-50%), 100%
- **Hispanic**: 17% (0-25%), 62% (26-50%), 12% (51-75%), 5% (76-99%), 3% (100%)
- **Asian**: 51% (0-25%), 48% (26-50%), 100%
- **Native Americans/ indigenous groups**: 46% (0-25%), 53% (26-50%), 100%