2021 SUMMARY REPORT:

Laboratory Professionals
The Public Health Workforce Interests and Needs Survey (PH WINS) was developed by the de Beaumont Foundation and the Association of State and Territorial Health Officials to understand the interests and needs of the state and local governmental public health workforce in the United States, and was fielded in 2014, 2017, and 2021. For more information, visit www.phwins.org.

ABOUT THIS REPORT

This report summarizes key findings about laboratory professionals in the governmental public health workforce from the 2021 Public Health Workforce Interests and Needs Survey (PH WINS).

- Key findings are organized by the main sections of PH WINS 2021:
  - Demographics
  - Workforce Characteristics
  - Staying & Leaving
  - Training Needs
  - Engagement & Satisfaction
  - Well-being
WHAT IS PH WINS?

*Public Health Workforce Interests and Needs Survey*

- PH WINS, a partnership between the de Beaumont Foundation and the Association of State and Territorial Health Officials (ASTHO), was fielded in 2014, 2017, and 2021.
- **First and only nationally representative source of data** about the governmental public health workforce.
- Supports the governmental public health workforce in **understanding their strengths and gaps** and informs future investments in workforce development efforts.
2021 METHODS

• PH WINS 2021 was distributed via web survey to **137,446 state and local governmental public health workers**:
  • 47 state health agencies
  • 29 big city health departments
  • 259 local health departments

• The PH WINS 2021 instrument had five domains: workplace environment, COVID-19 response, training needs, addressing public health issues, and demographics.

• One important change in 2021: non-permanent employees of centralized state health agencies were included in the nationally representative data set.
WORKFORCE DEFINITION

- Workforce groups are defined by a combination of responses to PH WINS questions on program area, job classification, education, and certifications.

- **Laboratory professionals** include PH WINS respondents who selected the following job classification(s), program area(s), or certification:
  - Job classifications: laboratory aide or assistant, laboratory technician, laboratory quality control worker, or laboratory scientist/medical technologist
  - Program area: public health laboratory
  - Certification: laboratory certification
**NATIONAL PARTICIPATION**

- Nationally, the survey was completed by 44,732 individuals, for a **35% response rate**.

- Response rates varied by frame:
  - **SHA**: 34%
  - **Big Cities**: 28%
  - **Other locals**: 52%
    - **Locals in Regions V and X**: 56%

*HHS Regions V and X participated in the PH WINS for all pilot programming, recruiting all locals in those regions, regardless of size, to participate in PH WINS.*
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Laboratory professionals account for 4% of the national governmental public health workforce.
2021 KEY FINDINGS: DEMOGRAPHICS

- PH WINS respondents self-reported demographic (personal) characteristics like their gender, race/ethnicity, and age.

- Respondents also self-reported the highest level of education attained and whether they have a specialized degree in public health.
DEMOGRAPHICS

- 74% of laboratory professionals self-identifies as a woman.
- More than half of laboratory professionals self-identifies as White.
• 51% of laboratory professionals is between the ages of 31 and 50 years.
EDUCATIONAL ATTAINMENT

- 33% of laboratory professionals **has an advanced degree**.
  - 23% has a Master’s degree.
  - 10% has a Doctoral degree.
- 8% has a specialized degree in public health.
2021 KEY FINDINGS: WORKFORCE CHARACTERISTICS

• PH WINS respondents were asked a series of questions related specifically to their job and the work they do, including:
  • Supervisory status
  • Job role
  • Primary program area
  • Tenure in public health overall, at their agency, and in their current job.

• Respondents also reported full-time/part-time status and salary information.
SUPERVISORY STATUS/JOB ROLE

- Nearly 3 out of 4 laboratory professionals work in a non-supervisory role.
- 75% of staff worked in a clinical and lab job role.
• 80% of laboratory professionals are distributed across **two primary** program areas:
  
  • **Other health care**, including certain clinical services, immunizations, mental, oral, and school health, and substance misuse.
  
  • **Communicable disease**
**TENURE AT AGENCY**

- 45% of laboratory professionals in 2021 had served at their agency for 5 years or less.
- 15% had served 21 or more years.
2021 KEY FINDINGS: STAYING & LEAVING

- PH WINS respondents were asked a series of questions related to their intent to leave or stay at their agency and whether the COVID-19 pandemic affected their decision.

- Respondents were also asked to select reasons why they intend to stay or leave.
INTENT TO LEAVE/STAY

• More than a quarter of laboratory professionals are considering leaving their organization within the next year.

• 22% reported that the COVID-19 pandemic impacted their decision to stay or leave.
  - Among those who intend to leave, 38% said the pandemic impacted their decision (data not shown).
REASONS FOR LEAVING/STAYING

- Understanding employees’ reasons for leaving is critical for improving recruitment and retention.

- Top reasons for leaving among laboratory professionals who intend to leave include:
  - Pay (reported by 60%)
  - Work overload/burnout (reported by 37%)

REASONS FOR LEAVING
LAB PROFESSIONALS: ALL EMPLOYEES

<table>
<thead>
<tr>
<th>Reason</th>
<th>Percent of Employees (2021)</th>
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<tbody>
<tr>
<td>Pay</td>
<td>60%</td>
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<tr>
<td>Lack of advancement opportunities</td>
<td>40%</td>
</tr>
<tr>
<td>Work overload/burnout</td>
<td>37%</td>
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<tr>
<td>Organizational culture</td>
<td>36%</td>
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<tr>
<td>Lack of recognition</td>
<td>35%</td>
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REASONS FOR STAYING
LAB PROFESSIONALS: ALL EMPLOYEES

<table>
<thead>
<tr>
<th>Reason</th>
<th>Percent of Employees (2021)</th>
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</thead>
<tbody>
<tr>
<td>Benefits</td>
<td>68%</td>
</tr>
<tr>
<td>Job stability</td>
<td>63%</td>
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<tr>
<td>Job satisfaction</td>
<td>41%</td>
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<tr>
<td>Organizational pride</td>
<td>38%</td>
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<tr>
<td>Supervisory satisfaction</td>
<td>37%</td>
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2021 KEY FINDINGS: TRAINING NEEDS

- PH WINS respondents were asked to rate the day-to-day importance of and their own proficiency with 25-26 skill items, tailored for their supervisory level.

- Skills were collapsed into 10 strategic skill categories.

- A training need is a skill item reported as having high importance, but low proficiency.

- Identifying training needs can help support strategies to produce T-employees, or those who have depth in technical skills and breadth in strategic skills.

TRAINING NEEDS: OVERALL

The top 5 areas of training needs across all supervisory levels are:

- Budget and financial management
- Change management
- Systems and strategic thinking
- Community engagement
- Cross-sectoral partnerships
### TRAINING NEEDS: NON-SUPERVISORS

The top 5 areas of training needs among non-supervisors are:

- Budget and financial management
- Change management
- Systems and strategic thinking
- Cross-sectoral partnerships
- Community engagement

<table>
<thead>
<tr>
<th>Strategic Skill Domain</th>
<th>Estimate</th>
<th>0%</th>
<th>25%</th>
<th>50%</th>
<th>75%</th>
<th>100%</th>
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</thead>
<tbody>
<tr>
<td>Budget and financial management</td>
<td>50%</td>
<td></td>
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<tr>
<td>Change management</td>
<td>42%</td>
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<tr>
<td>Systems and strategic thinking</td>
<td>39%</td>
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<tr>
<td>Cross-sectoral partnerships</td>
<td>34%</td>
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<tr>
<td>Community engagement</td>
<td>33%</td>
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<tr>
<td>Justice, equity, diversity &amp; inclusion</td>
<td>28%</td>
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<tr>
<td>Policy engagement</td>
<td>25%</td>
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<tr>
<td>Data-based decision-making</td>
<td>21%</td>
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<tr>
<td>Effective communication</td>
<td>20%</td>
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<tr>
<td>Programmatic expertise</td>
<td>12%</td>
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The top 5 areas of training needs among supervisors, managers, & executives are:

- Budget and financial management
- Community engagement
- Systems and strategic thinking
- Policy engagement
- Cross-sectoral partnerships

<table>
<thead>
<tr>
<th>Strategic Skill Domain</th>
<th>Percent of Employees (2021)</th>
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</thead>
<tbody>
<tr>
<td><strong>Budget and financial management</strong></td>
<td>62%</td>
</tr>
<tr>
<td><strong>Community engagement</strong></td>
<td>55%</td>
</tr>
<tr>
<td><strong>Systems and strategic thinking</strong></td>
<td>54%</td>
</tr>
<tr>
<td><strong>Policy engagement</strong></td>
<td>49%</td>
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<tr>
<td><strong>Cross-sectoral partnerships</strong></td>
<td>48%</td>
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<tr>
<td><strong>Change management</strong></td>
<td>47%</td>
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<tr>
<td><strong>Justice, equity, diversity &amp; inclusion</strong></td>
<td>45%</td>
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<tr>
<td><strong>Data-based decision-making</strong></td>
<td>25%</td>
</tr>
<tr>
<td><strong>Effective communication</strong></td>
<td>21%</td>
</tr>
<tr>
<td><strong>Programmatic expertise</strong></td>
<td>6%</td>
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2021 KEY FINDINGS: ENGAGEMENT & SATISFACTION

PH WINS respondents were asked to rate their agreement with several statements related to:

- Job, organizational, and pay satisfaction
- Perceptions about their workplace
- Perceptions about their supervisors
- Perceptions about their organization
Laboratory professionals are largely satisfied with their job (76%) and organization (63%).

41% are satisfied with their pay.
PERCEPTIONS ABOUT ORGANIZATION

- Laboratory professionals’ overall perceptions of their organizations are positive.

- However, there is room for improvement:
  - 43% of the workforce agrees that leadership staff and employees communicate well.
  - 41% agree that creativity and innovation are rewarded.
2021 KEY FINDINGS: WELL-BEING

• The 2021 PH WINS survey included questions specifically about employees’ mental and emotional well-being.
WELL-BEING

- 22% of laboratory professionals rate their mental health as either “poor” or “fair.”
Looking for more data and graphs?

- This report represents only a small portion of the data that are available from the 2021 PH WINS.
- Go to the national PH WINS Dashboard to view more data, download graph images, and more. You can find the dashboard at www.phwins.org/national

Want to learn more about the survey?

- Go to https://debeaumont.org/phwins/2021-findings/ for more information about PH WINS 2021, including key findings, links to publications and survey methods.

Have questions?

- Contact the PH WINS team at: phwins@debeaumont.org