

2021 SUMMARY REPORT:

Laboratory Professionals





ACKNOWLEDGEMENT & CITATION

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.

Citation: de Beaumont Foundation and Association of State and Territorial Health Officials, *Public Health Workforce Interests and Needs Survey: 2021 Dashboard.* August 3, 2022.



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

*PH WINS respondents were asked to report all program areas in which they currently serve. Workforce groups that are defined using program area include employees who work for the defining program area and may include employees who also work for additional program areas.



NATIONAL PARTICIPATION

- Nationally, the survey was completed by 44,732 individuals, for a 35% response rate.
- Response rates varied by frame:

• **SHA**: 34%

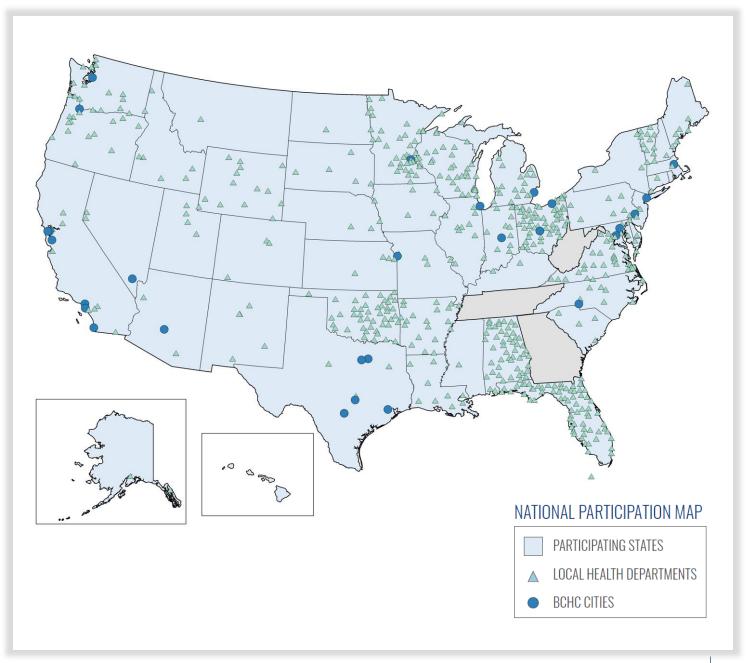
• Big Cities: 28%

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.





NATIONAL PARTICIPATION

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Respo Laboratory professionals account for 5% of the national governmental public health workforce.

Big Cities: 28%

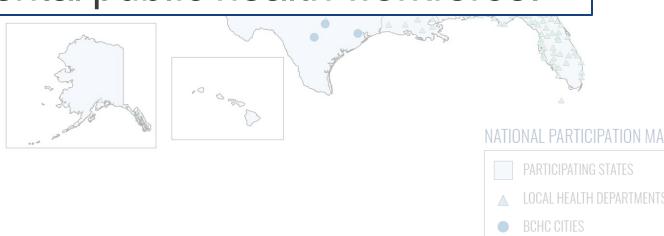
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2021 KEY FINDINGS: DEMOGRAPHICS

- 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.

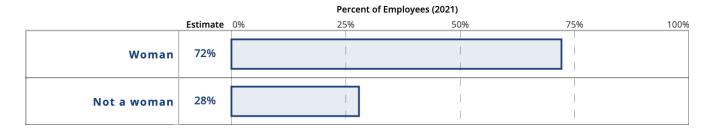


DEMOGRAPHICS

- 72% of laboratory professionals selfidentify as a woman.
- More than half of laboratory professionals selfidentify as White.

GENDER COLLAPSED

LAB PROFESSIONALS: ALL EMPLOYEES



RACE & ETHNICITY COLLAPSED

LAB PROFESSIONALS: ALL EMPLOYEES



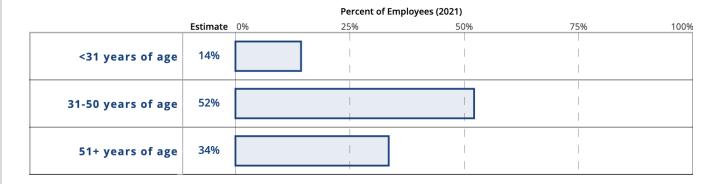




DEMOGRAPHICS

 52% of laboratory professionals are between the ages of 31 and 50 years.







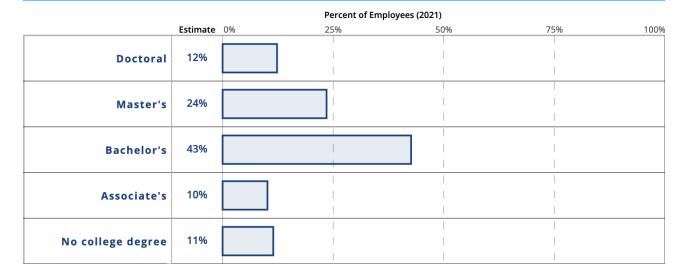


EDUCATIONAL ATTAINMENT

- 36% of laboratory professionals have an advanced degree.
 - 24% have a Master's degree.
 - 12% have a Doctoral degree.
- 9% have a specialized degree in public health.

EDUCATIONAL ATTAINMENT

LAB PROFESSIONALS: ALL EMPLOYEES



PUBLIC HEALTH TRAINING LAB PROFESSIONALS: ALL EMPLOYEES







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.



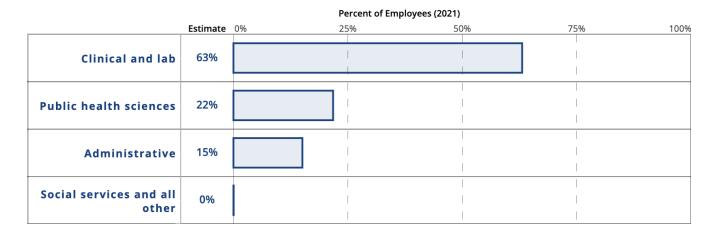
SUPERVISORY STATUS/JOB ROLE

- 69% of laboratory professionals work in a nonsupervisory role.
- 63% of staff work in a clinical and lab job role.

SUPERVISORY STATUS COLLAPSED LAB PROFESSIONALS: ALL EMPLOYEES



JOB CLASSIFICATION LAB PROFESSIONALS: ALL EMPLOYEES







PROGRAM AREA

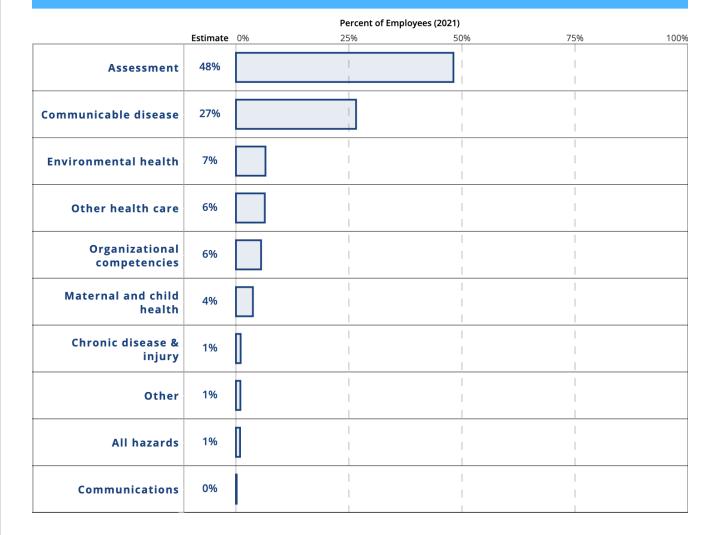
- 75% of laboratory professionals are distributed across two primary program areas:
 - Assessment
 - Communicable disease

*PH WINS respondents were asked to report all program areas in which they currently serve. This graph represents only the primary program area - the area in which a respondent spent the most time serving.





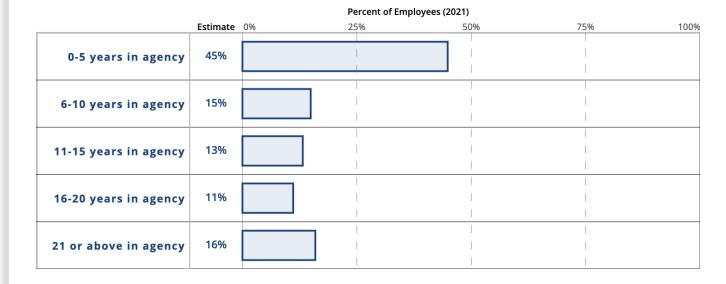
PROGRAM AREA LAB PROFESSIONALS: ALL EMPLOYEES



TENURE AT AGENCY

- 45% of laboratory professionals in 2021 had served at their agency for 5 years or less.
- 16% had served 21 or more years.

AGENCY TENURE LAB PROFESSIONALS: ALL EMPLOYEES







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.

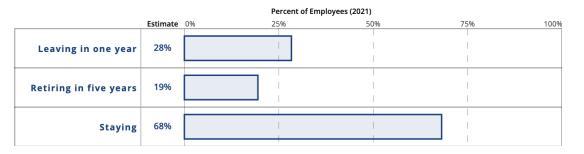


INTENT TO LEAVE/STAY

- More than a quarter of laboratory professionals are considering leaving their organization within the next year.
- 24% reported that the COVID-19 pandemic impacted their decision to stay or leave.
 - Among those who intend to leave, 40% said the pandemic impacted their decision (data not shown).



LAB PROFESSIONALS: ALL EMPLOYEES



IMPACT OF COVID ON STAYING & LEAVING LAB PROFESSIONALS: ALL EMPLOYEES

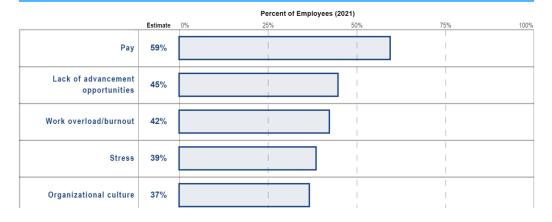




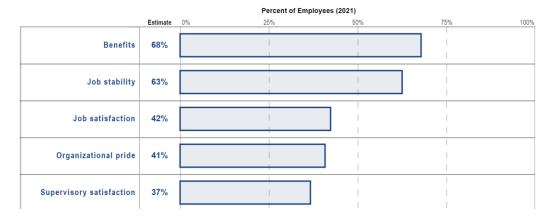
REASONS FOR LEAVING/STAYING

- Understanding employees' reasons for leaving is critical for improving recruitment and retention.
- Top reasons for leaving among laboratory professionals who intend to leave include:
 - Lack of opportunities for advancement (reported by 45%)
 - Work overload/burnout (reported by 42%)

REASONS FOR LEAVING LAB PROFESSIONALS: ALL EMPLOYEES



REASONS FOR STAYING LAB PROFESSIONALS: ALL EMPLOYEES

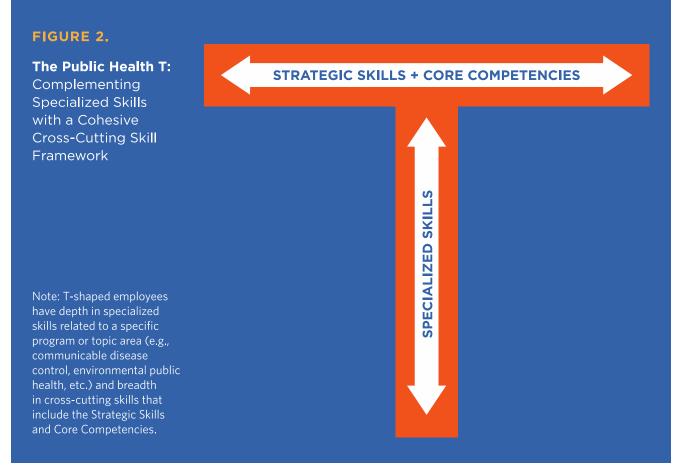






2021 KEY FINDINGS: TRAINING NEEDS

- 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 Temployees, or those who have depth in technical skills and breadth in strategic skills.







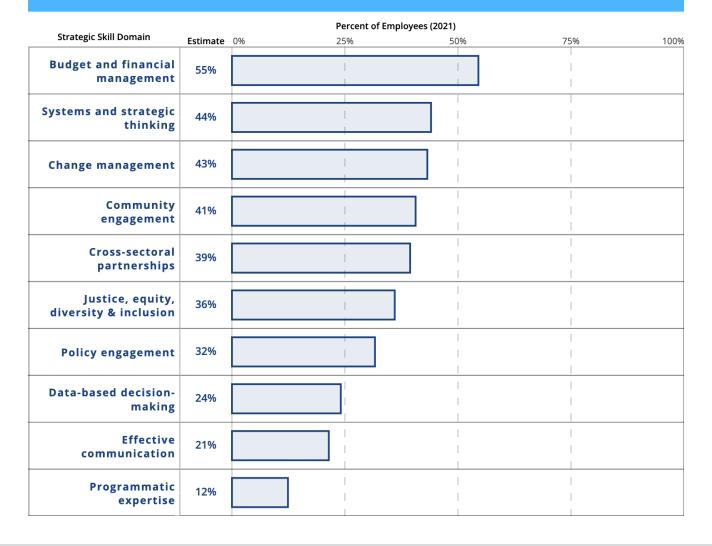
TRAINING NEEDS: OVERALL

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

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







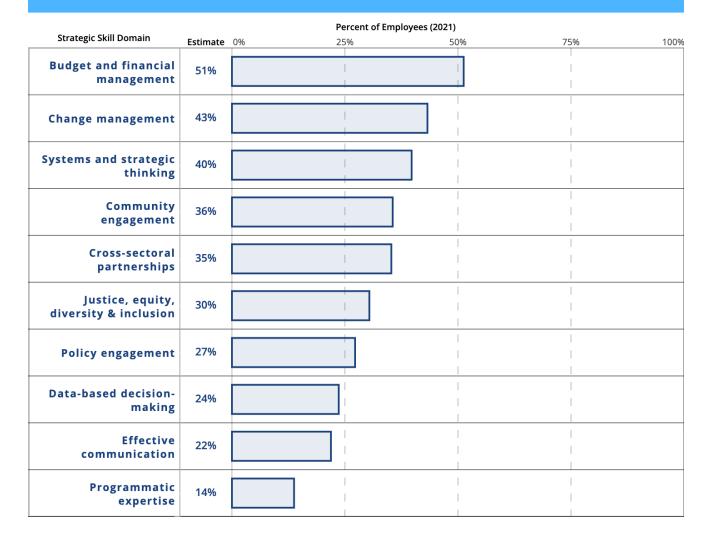
TRAINING NEEDS: NON-SUPERVISORS

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

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







TRAINING NEEDS: SUPERVISORS, MANAGERS, & EXECUTIVES

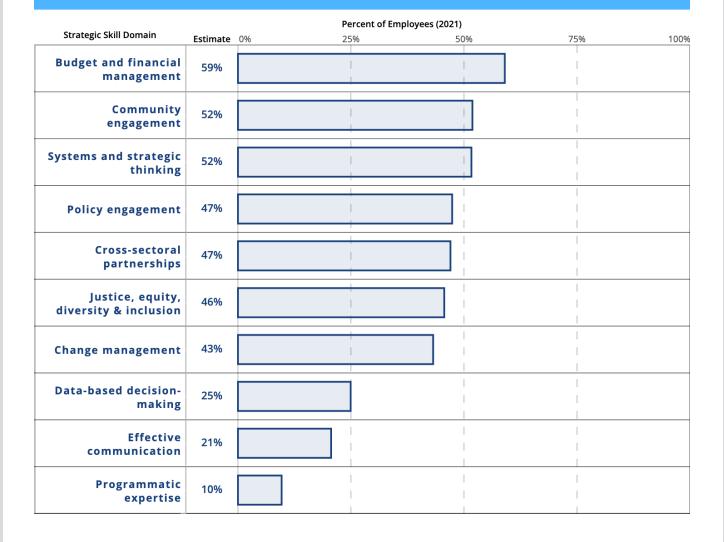
The top 5 areas of training needs among supervisors, managers, & executives are:

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





TRAINING NEEDS: SUPERVISORS, MANAGERS, & EXECUTIVES LAB PROFESSIONALS: ALL EMPLOYEES



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



SATISFACTION

- Laboratory professionals are largely satisfied with their job (76%) and organization (64%).
- 41% are satisfied with their pay.



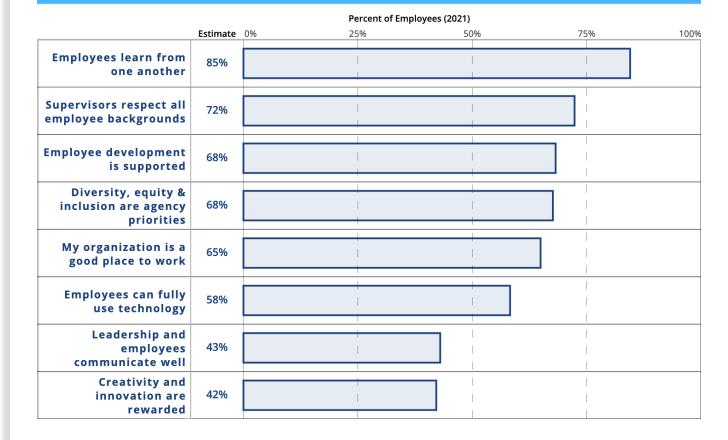




PERCEPTIONS ABOUT ORGANIZATION

- 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.
 - 42% agree that creativity and innovation are rewarded.

PERCEPTIONS ABOUT ORGANIZATION LAB PROFESSIONALS: ALL EMPLOYEES







2021 KEY FINDINGS: WELL-BEING

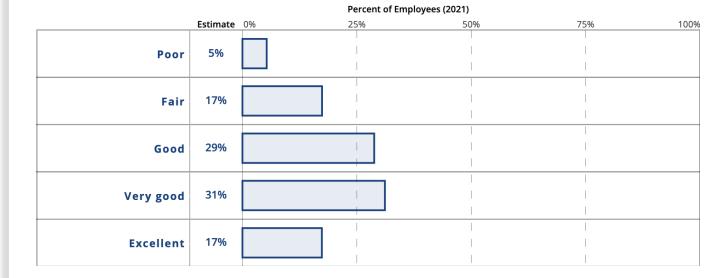
• The 2021 PH WINS survey included questions specifically about employees' mental and emotional well-being.



WELL-BEING

 22% of laboratory professionals rate their mental health as either "poor" or "fair."









2021 KEY FINDINGS: HEALTH EQUITY CONCEPTS

The 2021 PH WINS survey asked respondents to rate their level of awareness of and confidence in applying five health equity concepts:

- Health Equity
- Social Determinants of Equity
- Social Determinants of Health
- Structural Racism
- Environmental Justice



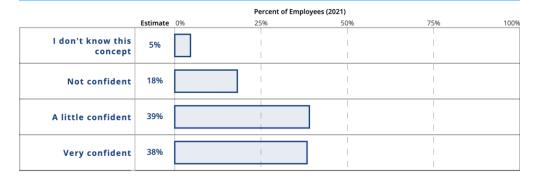
HEALTH EQUITY CONCEPTS: HEALTH EQUITY

- 57% of laboratory professionals rated their awareness of Health Equity as a lot.
- 38% of laboratory professionals are very confident in applying the concept of Health Equity to their work.

AWARENESS: HEALTH EQUITY LAB PROFESSIONALS: ALL EMPLOYEES



CONFIDENCE: HEALTH EQUITY LAB PROFESSIONALS: ALL EMPLOYEES



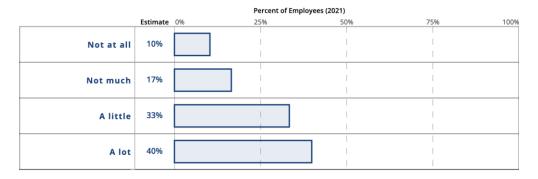




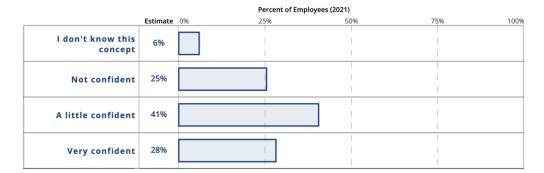
HEALTH EQUITY CONCEPTS: SOCIAL DETERMINANTS OF EQUITY

- 40% of laboratory professionals rated their awareness of Social Determinants of Equity as a lot.
- 28% of laboratory
 professionals are
 very confident in applying
 the concept of Social
 Determinants of
 Equity to their work.

AWARENESS: SOCIAL DETERMINANTS OF EQUITY LAB PROFESSIONALS: ALL EMPLOYEES



CONFIDENCE: SOCIAL DETERMINANTS OF EQUITY LAB PROFESSIONALS: ALL EMPLOYEES



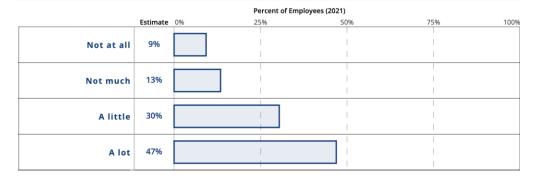




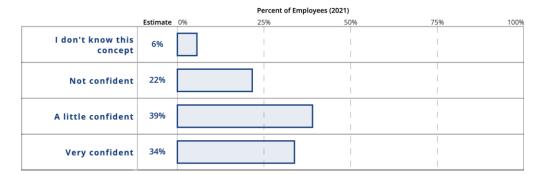
HEALTH EQUITY CONCEPTS: SOCIAL DETERMINANTS OF HEALTH

- 47% of laboratory professionals rated their awareness of Social Determinants of Health as a lot.
- 34% of laboratory professionals are very confident in applying the concept of Social Determinants of Health to their work.

AWARENESS: SOCIAL DETERMINANTS OF HEALTH LAB PROFESSIONALS: ALL EMPLOYEES



CONFIDENCE: SOCIAL DETERMINANTS OF HEALTH LAB PROFESSIONALS: ALL EMPLOYEES







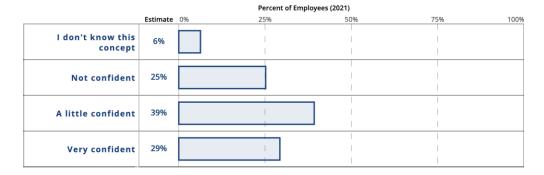
HEALTH EQUITY CONCEPTS: STRUCTURAL RACISM

- 42% of laboratory professionals rated their awareness of Structural Racism as a lot.
- 29% of laboratory professionals are very confident in applying the concept of Structural Racism to their work.

AWARENESS: STRUCTURAL RACISM LAB PROFESSIONALS: ALL EMPLOYEES



CONFIDENCE: STRUCTURAL RACISM LAB PROFESSIONALS: ALL EMPLOYEES



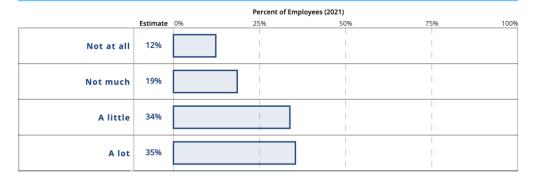




HEALTH EQUITY CONCEPTS: ENVIRONMENTAL JUSTICE

- 35% of laboratory professionals rated their awareness of Environmental Justice as a lot.
- 27% of laboratory professionals are very confident in applying the concept of Environmental Justice to their work.

AWARENESS: ENVIRONMENTAL JUSTICE LAB PROFESSIONALS: ALL EMPLOYEES



CONFIDENCE: ENVIRONMENTAL JUSTICE LAB PROFESSIONALS: ALL EMPLOYEES







FIND OUT MORE (delete this slide before printing or presenting!)

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

Click the image to go to the national PH WINS Dashboard.



