Using Data to Drive Business Engagement

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1. Data use cases
2. IDES - Labor Market Information
3. Apprenticeship Illinois & IEBS
4. Census Bureau Surveys

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Data use cases for business engagement

Case I: Computer systems security apprenticeships in Madison County

According to a private interest group, nearly 19,000 cybersecurity jobs will be available in Illinois this year.

Over the course of a couple months, you view nearly a hundred regional job postings referring to industry credentials like CISA, CISSP, and CompTIA Security+, a big increase from previously.

Case I: Computer systems security apprenticeships in Madison County

Objective:

Partner with regional employers to build a sustainable source of cybersecurity talent that can perform general computer services while gaining workforce experience and attaining industry credentials, such as CISA, CISSP, and CompTIA Security+.

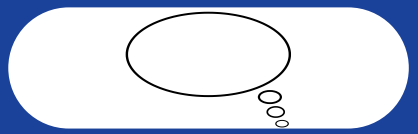
Discussion leader suggestions

1

Consult public resources on data to go in proposal:

1. By recruiting regionally, what is the size of the available labor force?
2. Which occupations require the industry standard credentials?
3. What are the wage profiles for those occupations?

2



Using Illinois Employment Business System (IEBS), compile list of possible industry partners.

Conduct business surveys and roundtables.

3

Collaboratively write an apprenticeship proposal.

Contact businesses and education partners.

Create formulary for apprenticeship: newsletter, events, marketing, etc.

Case I: Computer systems security apprenticeships in Madison County

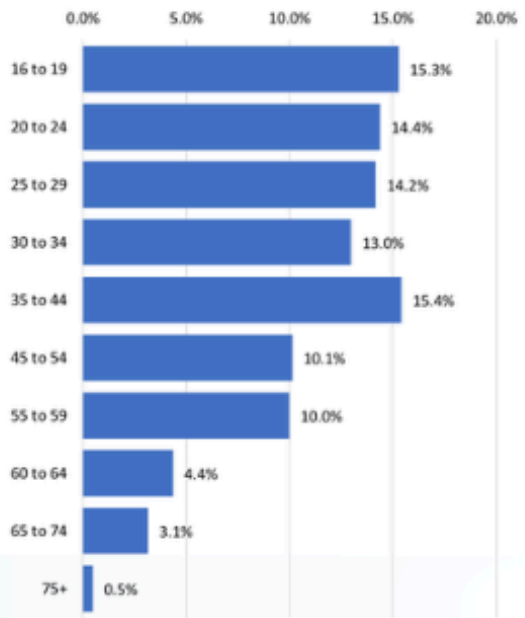
Question I.I:

By recruiting regionally, what is the size of the available labor force?

Source: ACS Table S2301, data.census.gov

Potential Workers in Madison County

Share of Job Seekers by Age



Potential Workers by Age	Total Population	Working or Seeking Work	Job Seekers
Total, 16+	215,565	136,668	7,107
16 to 19	14,690	6,875	1,086
20 to 24	16,201	12,167	1,022
25 to 29	16,617	14,390	1,007
30 to 34	17,602	15,631	922
35 to 44	33,250	28,828	1,095
45 to 54	32,748	27,705	720
55 to 59	18,888	13,920	710
60 to 64	18,573	9,677	310
65 to 74	27,237	6,047	224
75+	19,759	1,482	34

Source: U.S. Census Bureau, 2018-2022 American Community Survey, Table S2301

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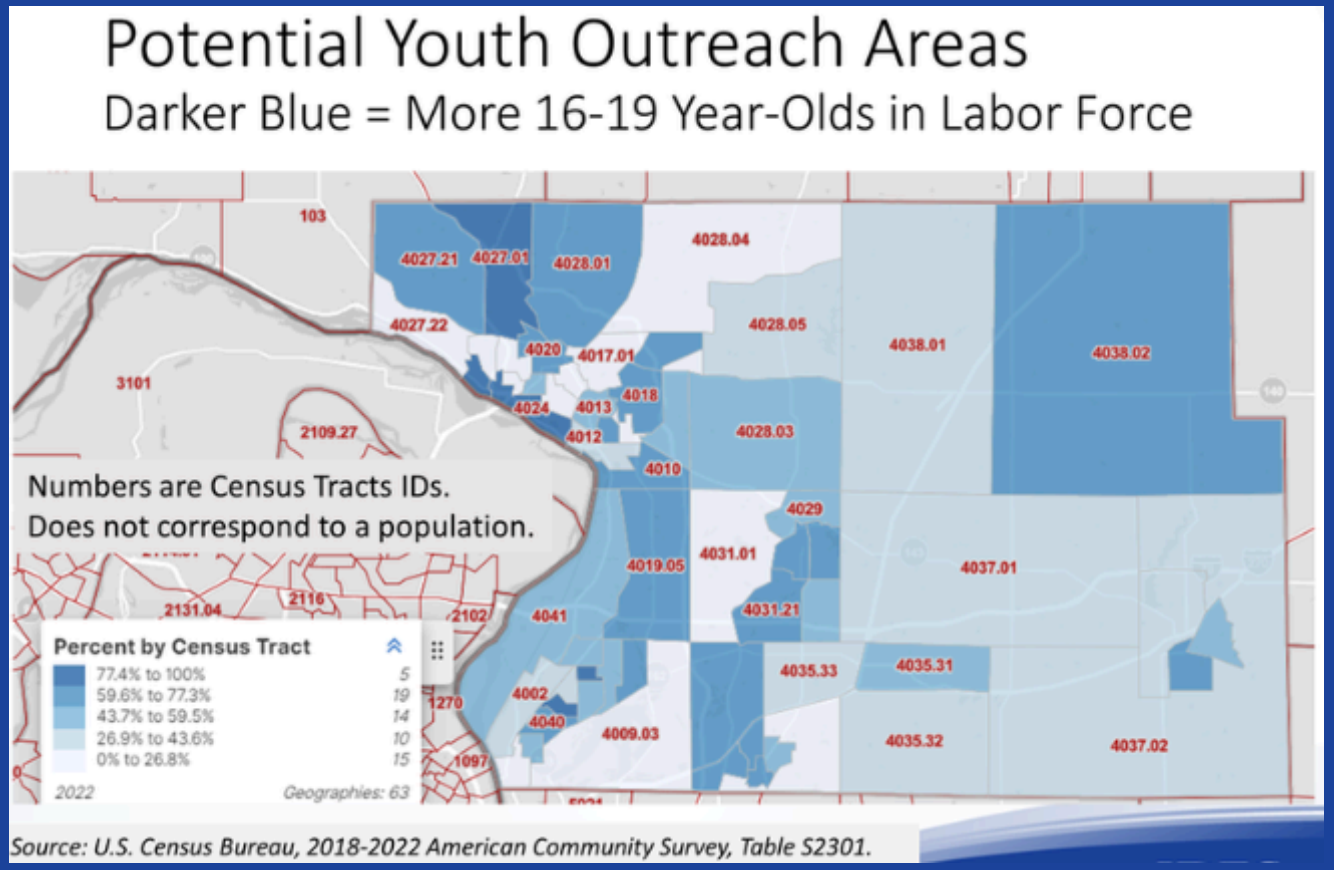
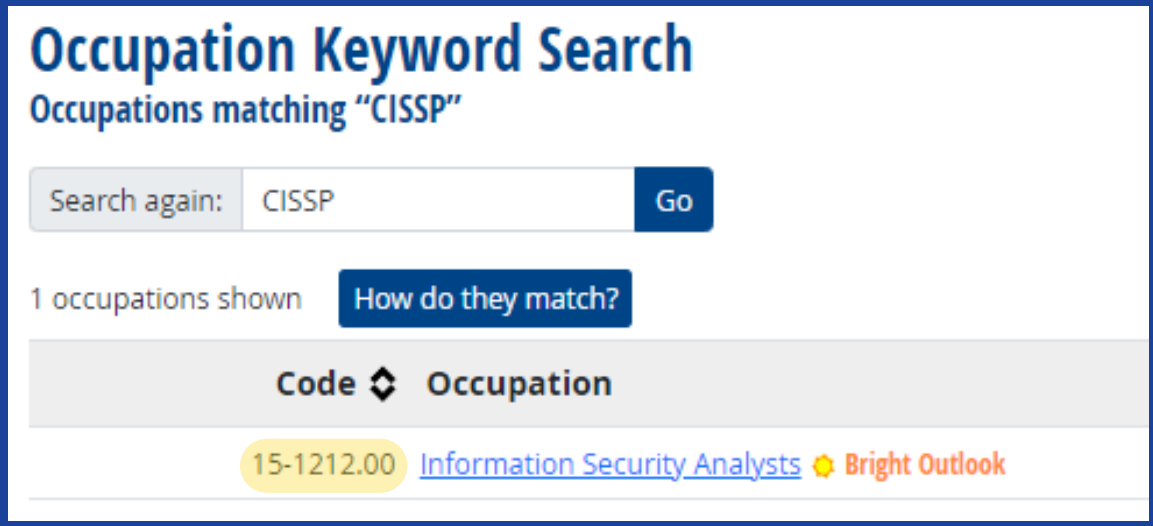


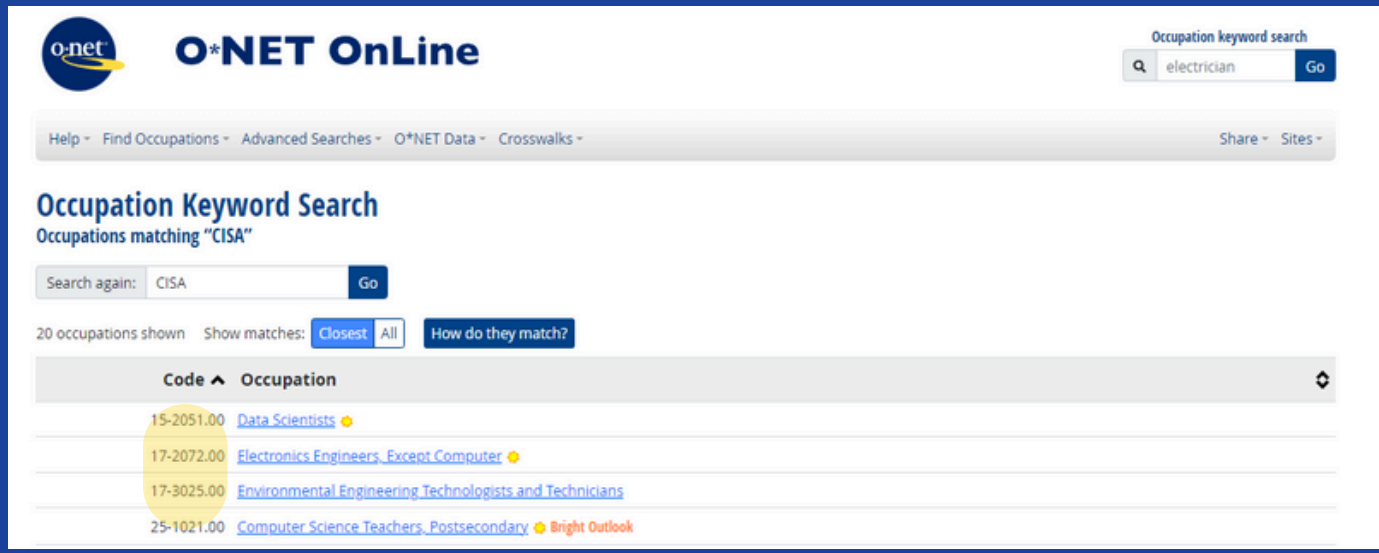
Case I: Computer systems security apprenticeships in Madison County



Question I.2:

Which occupations require the industry standard credentials?

Source: O*Net OnLine, SOC Code

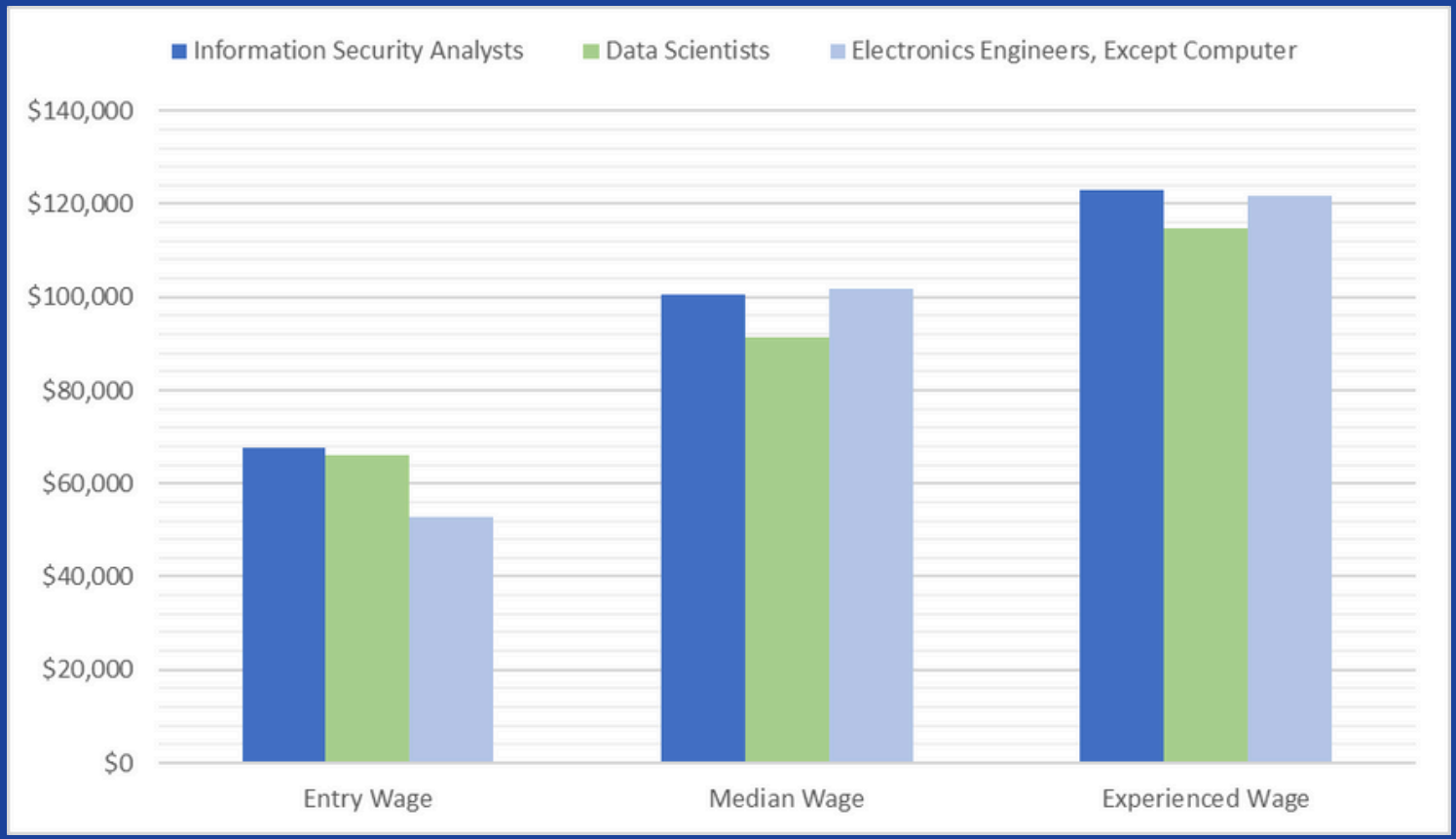


Case I: Computer systems security apprenticeships in Madison County

Question I.3:

What are the wage profiles for those occupations?

Source: IDES Labor Market Information, https://ides.illinois.gov/resources/labor-market-information/oews.html

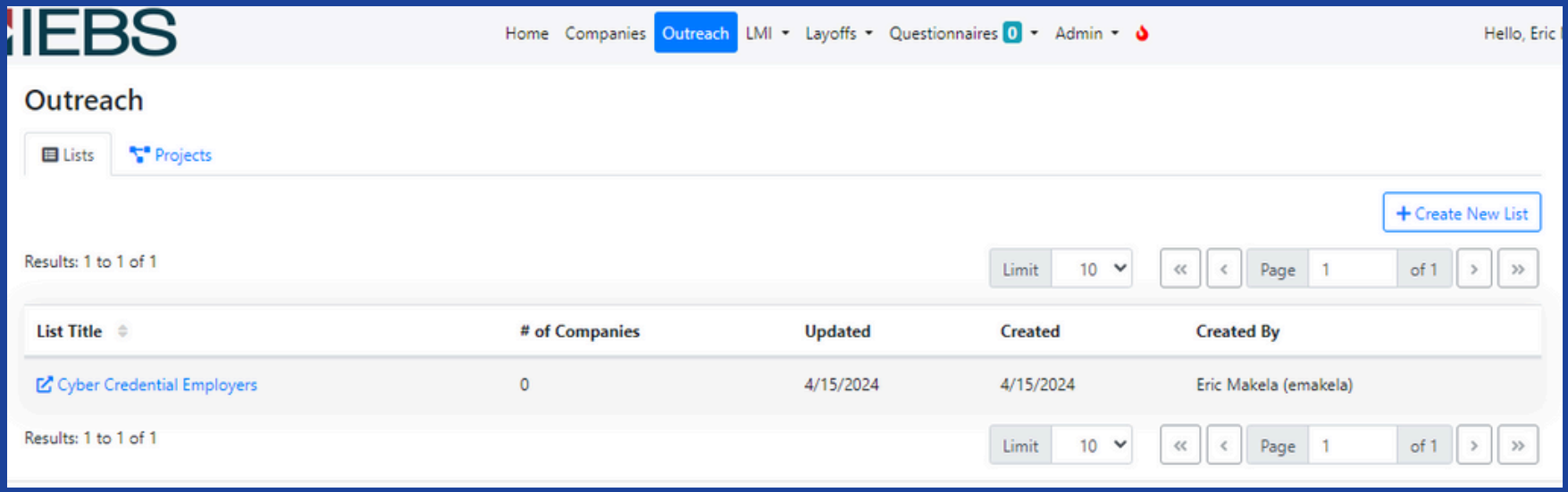


Case I: Computer systems security apprenticeships in Madison County

Question I.4:

Using the Illinois Employment Business System, create a list of possible employers to partner with in creating an industry apprenticeship program.

Source: Illinois workNet



Case 2:
Moline employer wants to reduce turnover in some jobs and encourage competition in others.

Regional Delivery Associates				Warehouse and Stockyard Leads			
Entry Wage	Promotion Wage	Current Staff	Annual Turnover	Entry Wage	Promotion Wage	Current Staff	Annual Turnover
$13.50	$16.50	23	50%	$19.00	$40.00	8	10%
Required credentials: • High School Degree • 2 years of experience operating a vehicle				Required credentials: • College Degree • Not more than 5 points on driving record • Ability to be "on-call" when requested			

Case 2:
Moline employer wants to reduce turnover in some jobs and encourage competition in others.

Objective:

In a somewhat open-ended manner, partner with DMRI Distributors to identify strategies to grow its business through workforce.

Regional Delivery Associates				Warehouse and Stockyard Leads			
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Required credentials: • High School Degree • 2 years of experience operating a vehicle				Required credentials: • College Degree • Not more than 5 points on driving record • Ability to be "on-call" when requested			

Discussion leader suggestions

1

Consult with DMRI Distributors to understand why they think they cannot achieve a workforce balance.

How is the current staff over- or under-performing?

2

Search for competing local employers in IEBS. Does DMRI's scale suggest they are in competition with those employers for workers?

3

Match occupations with regional wage database from IDES:

- Do DMRI's wage profiles match those in the data?
- What is the size of the local labor market?

Case 3:
Major company wants to expand, renovating a large assisted living facility from an abandoned structure.

Restful Oaks Inc, based in Chicago, is comparing multiple sites in both Grundy and Kankakee counties, with the goal of establishing another permanent residential location. Labor supply and local population are important factors.

Case 3:
Major company wants to expand, renovating a large assisted living facility from an abandoned structure.

Objective:

Get data on Grundy and Kankakee counties, and structure the data in such a way that company leadership will include it in their investment recommendations report.

Discussion leader suggestions

1

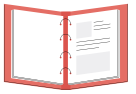
Consult with Restful Oaks leadership on the key metrics driving their business decision.

2

For Grundy and Kankakee counties:

- Gather business census data from the Quarterly Census of Employment and Wages (QCEW)
- Gather resident population and employment data from sources

3



In a short report comparing the counties, include data tables on:

- Healthcare business presence
- Resident population and labor force
- Occupation wage profiles

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Resources:

- IDES
- Illinois workNet
- Census Bureau

Labor Market Information

Employment Statistics

- Number of Jobs (CES)
- Job Location (CES/QCEW)
- Total Payroll (CES)
- Jobs by Industry (CES/QCEW)

Labor Force Statistics

- Labor Force Participation (LAUS)
- Number of Workers (LAUS)
- Unemployment Rate (LAUS)

Wage Statistics

- Weekly and Hourly Wages by Industry (CES)
- Annual and Hourly Occupation Wages by Experience (OEWS)

Projections

- Employment Projections (Employment Projections)
- Occupational Projections (Employment Projections)

What Else is Available?

- UI Claimants Characteristics (IDES/DOL)
- Plus, many sources of population and demographic data collected through the U.S. Census Bureau
  - Education
  - Household
- Plus, data on jobs and skills as pulled through web APIs by private sector workforce companies
  - Help Wanted Online
  - Commuter and job skill matching

IEBS

Illinois Employment Business System

Apprenticeship ILLINOIS.com

Prepare • Train • Retain

Powered by

ILLINOIS workNet® CENTER

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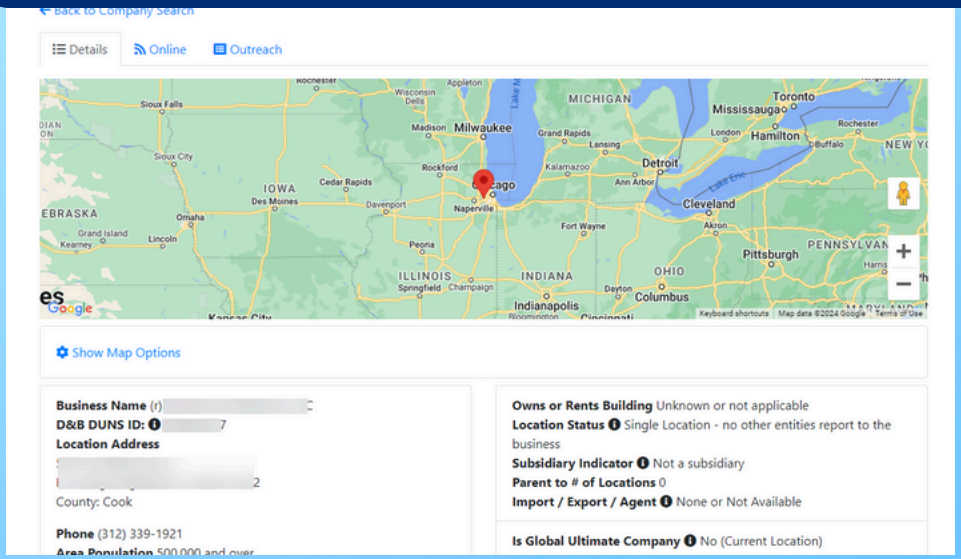
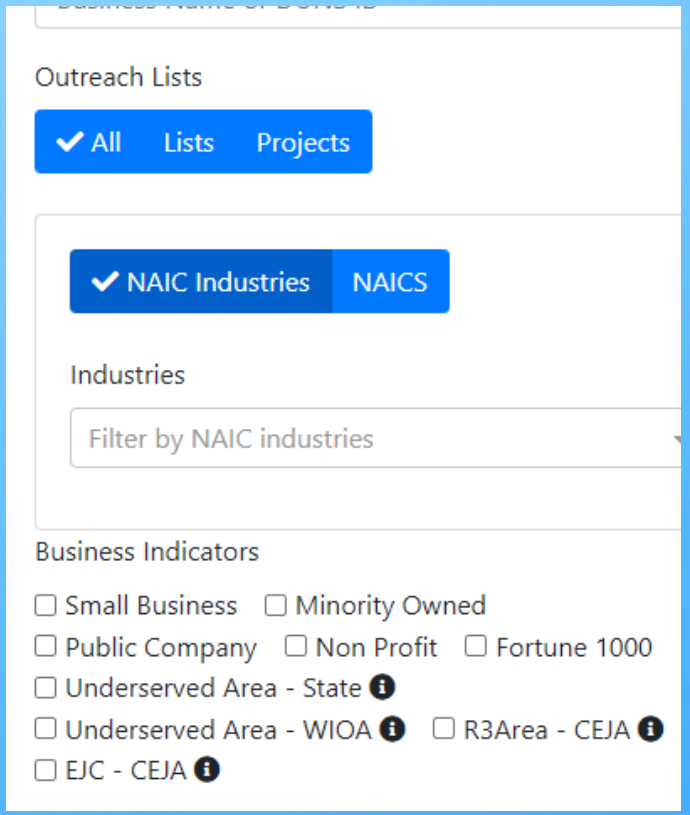
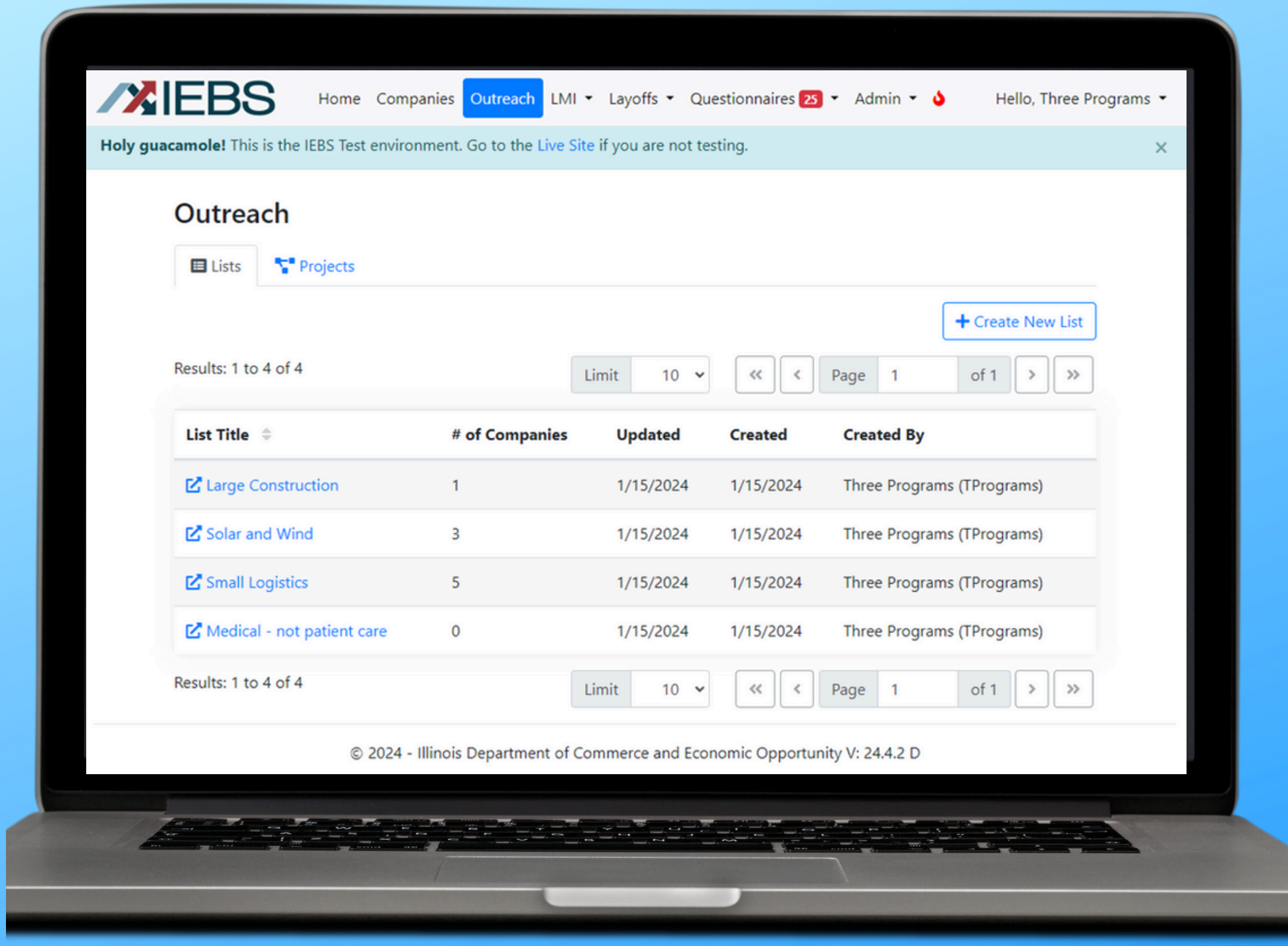
Search D&B for companies



Primary Naics	Employee Count	Sales Volume	Company Health
238330 - Flooring Contractors (Construction)	23 (Here) 23 (Total)	$2,205,332	Growth $ Low (2) Spend Growth (F)




IEBS
Home
Companies
Outreach
LMI
Layoffs
Questionnaires 25
Admin
Hello, Three Programs
Holy guacamole! This is the IEBS Test environment. Go to the Live Site if you are not testing.
Outreach
Lists
Projects
+ Create New List
Results: 1 to 4 of 4
Limit 10
Page 1 of 1
List Title
# of Companies
Updated
Created
Created By
Large Construction 1 1/15/2024 1/15/2024 Three Programs (TPrograms)
Solar and Wind 3 1/15/2024 1/15/2024 Three Programs (TPrograms)
Small Logistics 5 1/15/2024 1/15/2024 Three Programs (TPrograms)
Medical - not patient care 0 1/15/2024 1/15/2024 Three Programs (TPrograms)
Results: 1 to 4 of 4
Limit 10
Page 1 of 1
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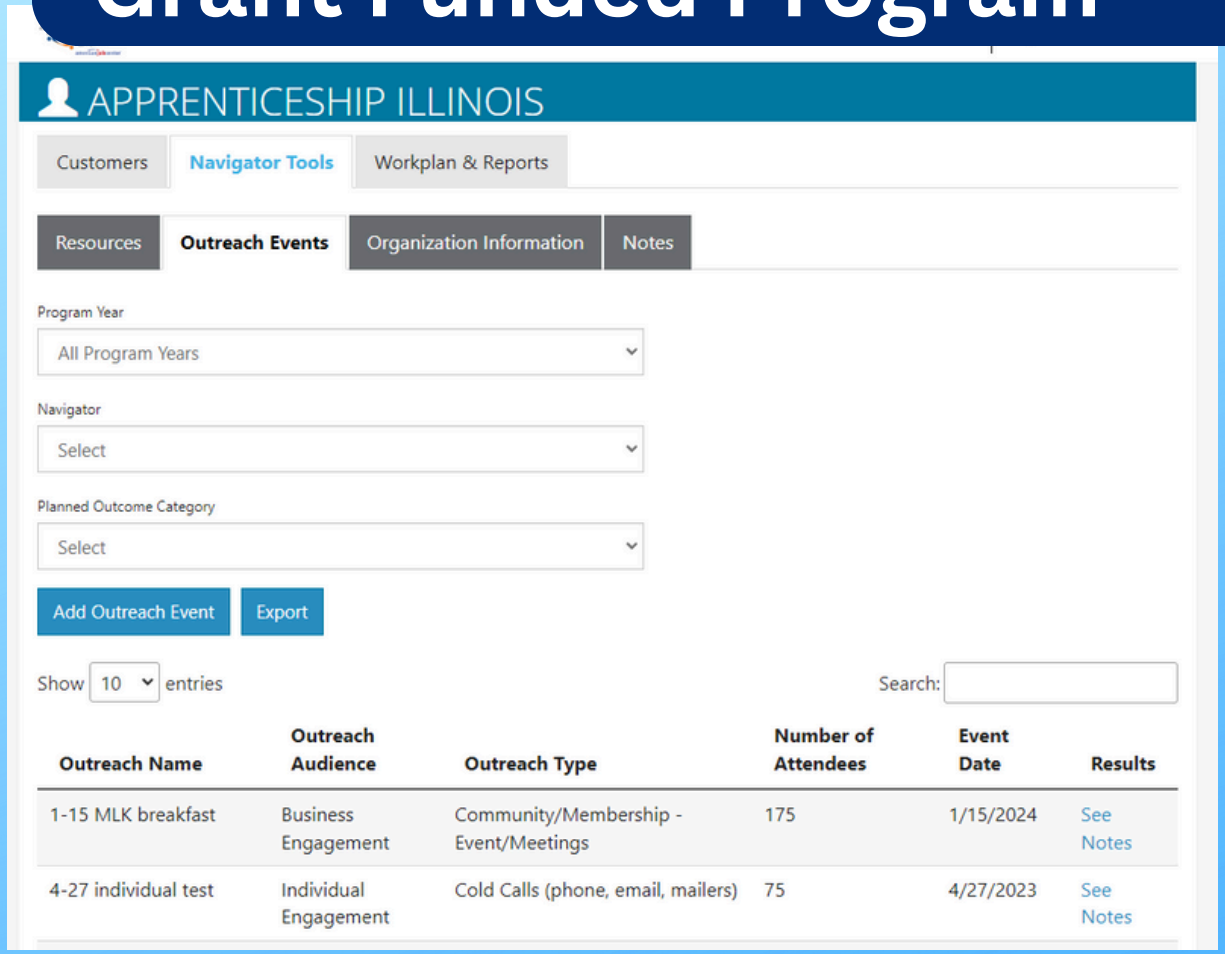
Business Outreach Tool

Grant Funded Program



Currently Tracking:

- Outreach Events
- Organizations
- Apprenticeships

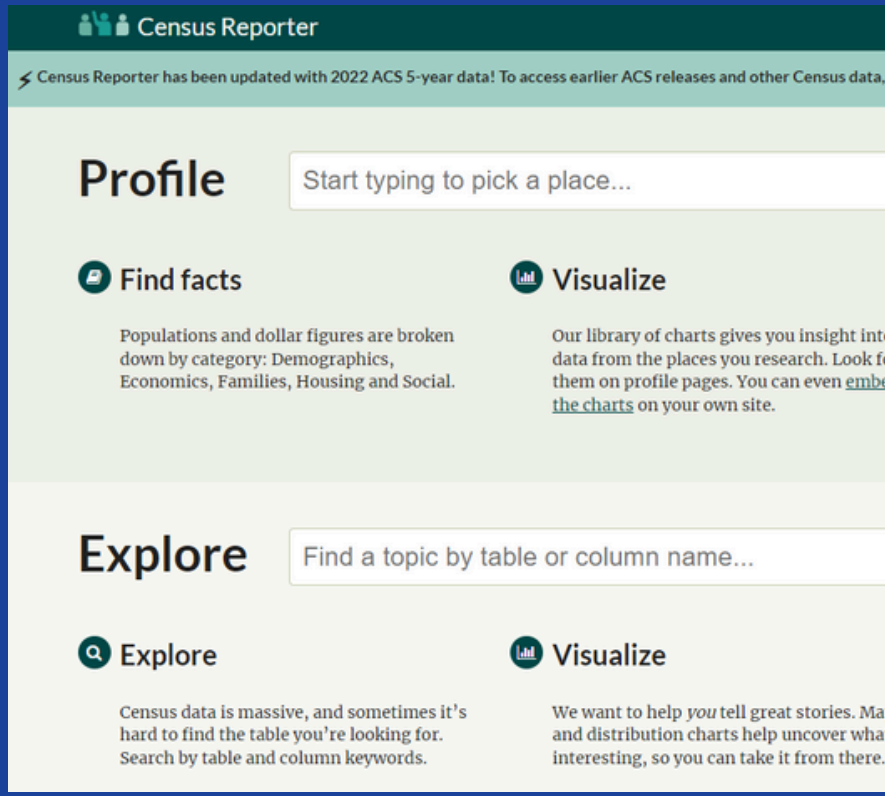
Coming Soon:

- Project updates

Working with Census Data

Search by ‘Table Number’, not keywords

1. Censusreporter.org: to find table #’s
    a. Ex: S2301 is labor market data
2. Go to data.census.gov
    a. Enter table #
    b. select geography



Tips:

- Use 5-year data for sub-state geographies
    - Time lapse, not a snapshot
- Some data can be mapped online
    - No GIS experts required

This has been: "Using Data to Drive Business Engagement"

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