Leveraging Labor Market Insights for Academic Program Development and Review



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Welcome and Introductions



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About Lightcast

- In 2021, Emsi and Burning Glass merged to form Emsi Burning Glass and in 2022, became Lightcast.
- Today, Lightcast is the leading labor market analytics company with more than one billion job postings and more than 300 million workforce profiles.
- Lightcast partners with more than 1,000 institutions of higher education in the United States.



Session Agenda

- Components of Academic Program Review
- The Core Four
- Completing the Form for the Louisiana Board of Regents
- Break
- Utilizing the Tool
- Gathering Stakeholder Buy-In
- Wrapping Up



Components of Academic Program Review





The Core Four to Demonstrate Program Value



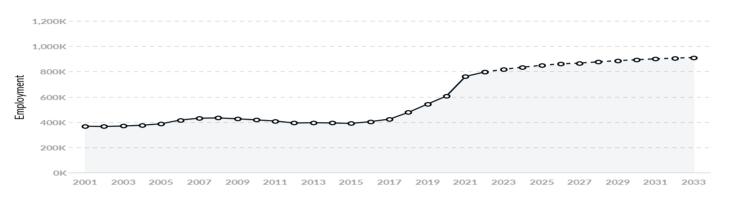


Size: Current and Projected Growth

Project Management Specialists, United States, 2001 – 2033

Regional Employment Is About Equal to the National Average

An average area of this size typically has 367,033* jobs, while there are 367,033 here.



	Region	2001 Jobs	2033 Jobs	Change	% Change	
•	United States	367,033	910,830	543,798	148.2%	
	National Average	367,033	910,830	543,798	148.2%	



^{*}National average values are derived by taking the national value for Project Management Specialists and scaling it down to account for the difference in overall workforce size between the nation and United States. In other words, the values represent the national average adjusted for region size.

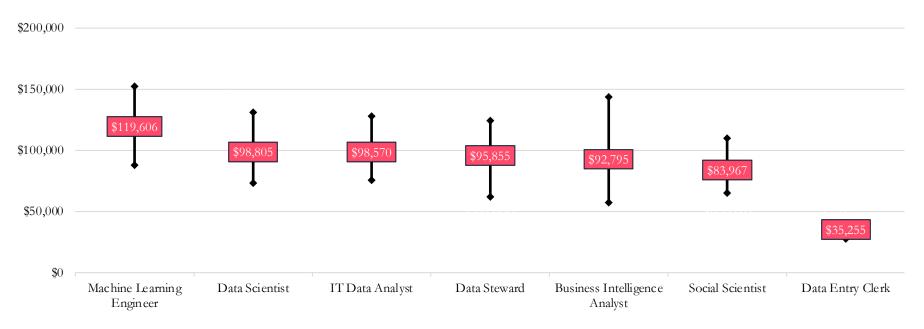
Staffing: Detroit, MI Job Postings – Management Information Systems

Company	Total/Unique (Feb 2018 - Feb 2019)		Posting Intensity	Median Posting
Oracle Corporation	925 / 181	5:1 -	-	43 days
Deloitte LLP	861 / 143	6:1 -	-	67 days
ACCENTURE, INC.	451 / 113	4:1 -	+	50 days
Renature, Inc.	1,465 / 107	14:1 -		12 days
Anthem, Inc.	394 / 88	4:1 -	-	27 days
Ally Financial Inc.	161 / 37	4:1 -		39 days
Ford Motor Company	158 / 34	5:1 -	-	57 days
Henry Ford Health System	141 / 34	4:1 -		61 days
CAP GEMINI	95 / 29	3:1 -		33 days
Siemens AG	184 / 29	6:1 -		49 day
FCA US LLC	223 / 28	8 · 1 -		65 days



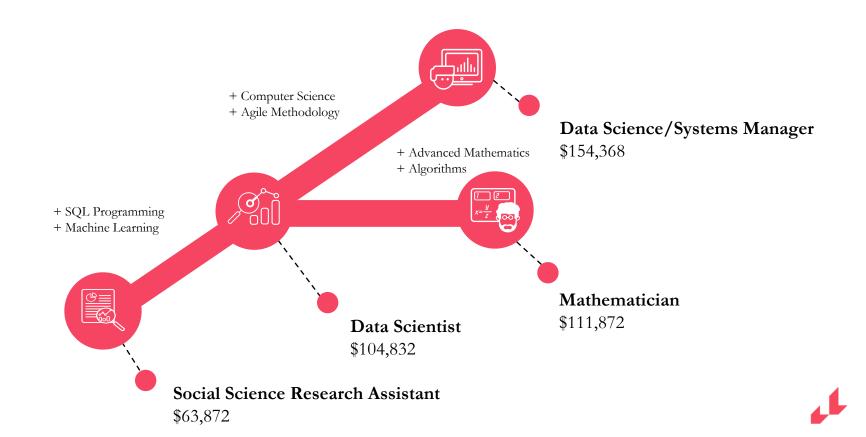
Salary: Data Science and Related Occupations, 2022

Quartile Salary Bands for Selected Occupations, United States, 2022



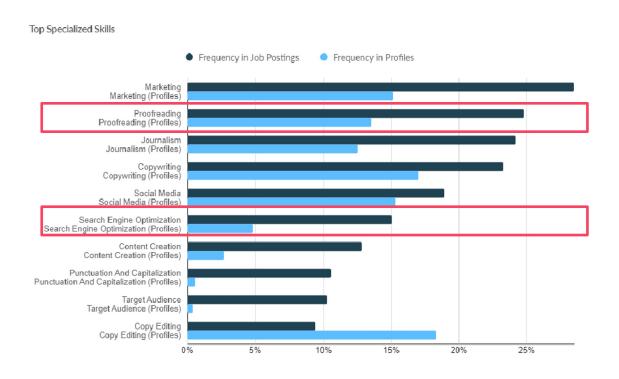


Salary and Skills Help Align College-Career Pathways



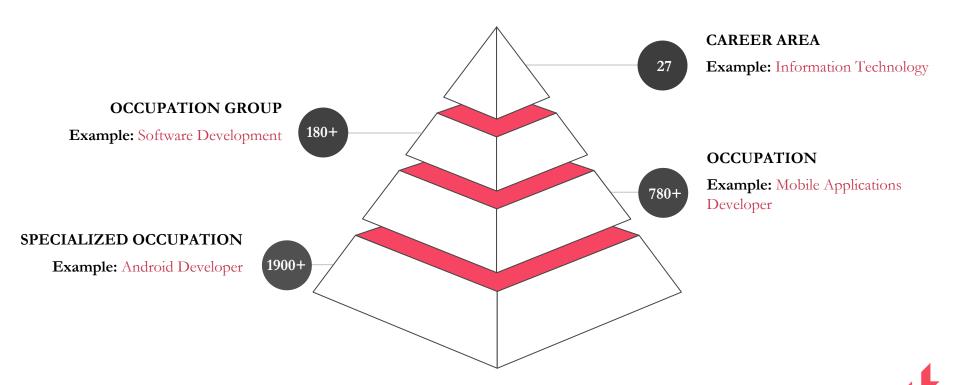
Skills: Align College-Career Pathways to the Labor Market

Top Skills – Skills, Creative Writing, United States

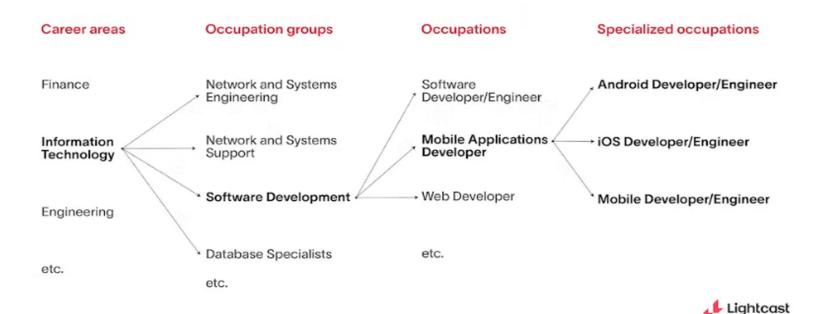




Reimagine Programs: Lightcast Occupation Taxonomy

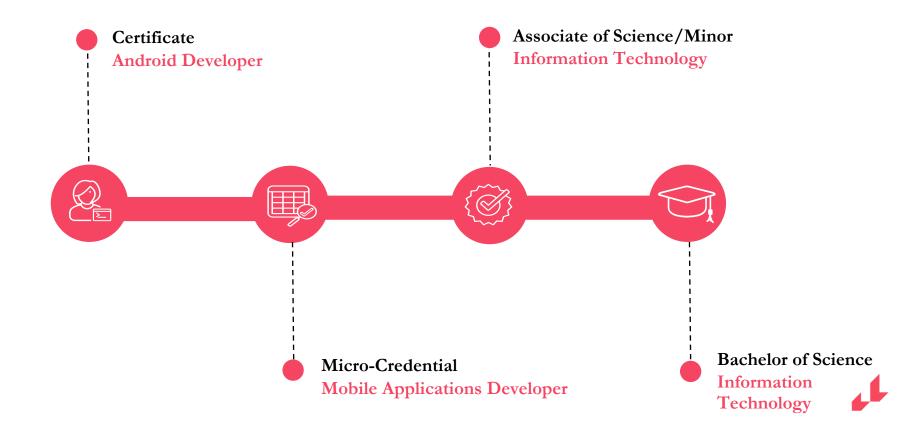


Reimagine Programs: Lightcast Occupation Taxonomy





Reimagine Curriculum Pathways and Credentials



LABOR Academic Degree Program Proposal Form

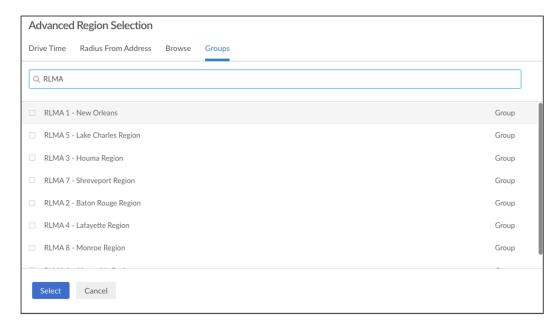
Form-focused, best practices incorporating Lightcast data

- Exploring your service area: RLMA-, State-, or National-level data.
- Exploring employment outlooks for occupations related to the program.
- Examining the competitive landscape in your service area that offers the same or similar programs.
- Identifying the Knowledge, Skills, and Abilities (KSAs) associated with related occupations.



Selecting Your Service Area

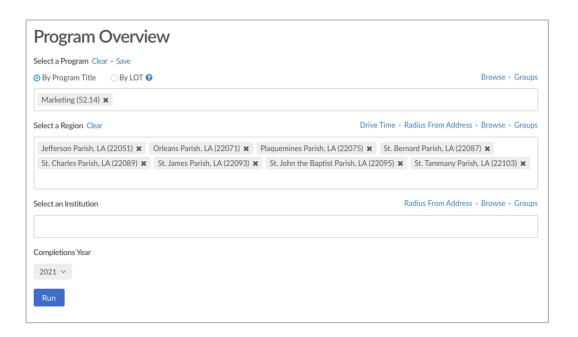






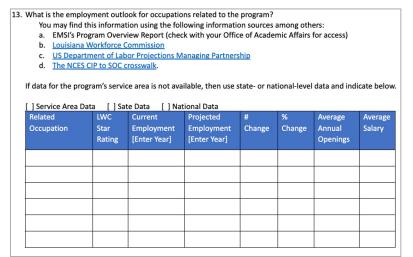
Program Overview Report

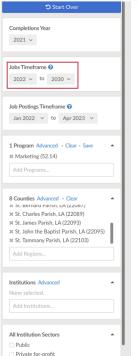
Set Up the Search Parameters

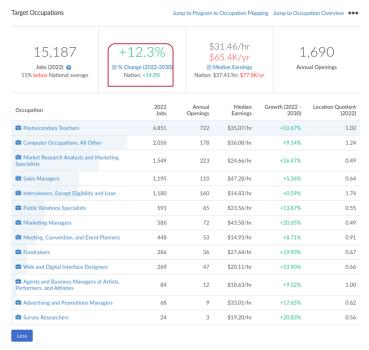




Program-Related Employment Outlook









Displaying Occupational Change

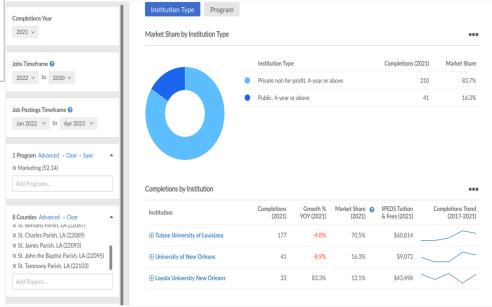




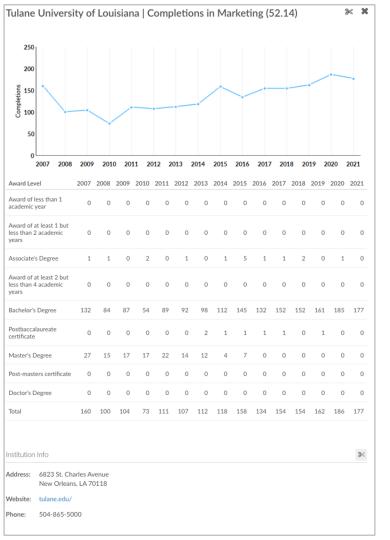
Program-Related Competitive Landscape

14. List other institutions within the service area that offer the same or similar programs and include the number of graduates from within the last year. This information is available through IPEDS, EMSI's Program Overview Report and BOR Searchable CRIN.

Program (degree and title)	No. Graduates in past year
	Program (degree and title)



Displaying Program Award Level





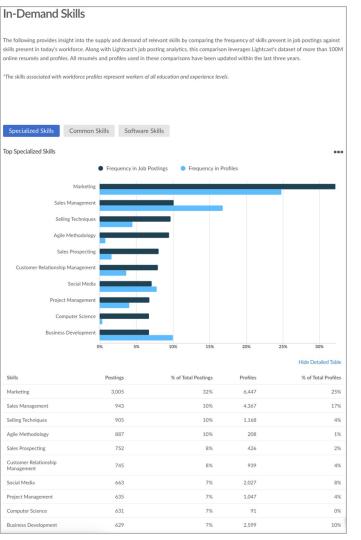
Occupation-Related Skills

17. Using data from the US Department of Labor O*-Net and/or EMSI's Program Overview Report identify at least three technical skills and three Knowledge, Skills, and Abilities (KSAs) as identified in O*-Net/EMSI associated with the related occupations.

Occupation	Occupation-specific skills & KSAs	

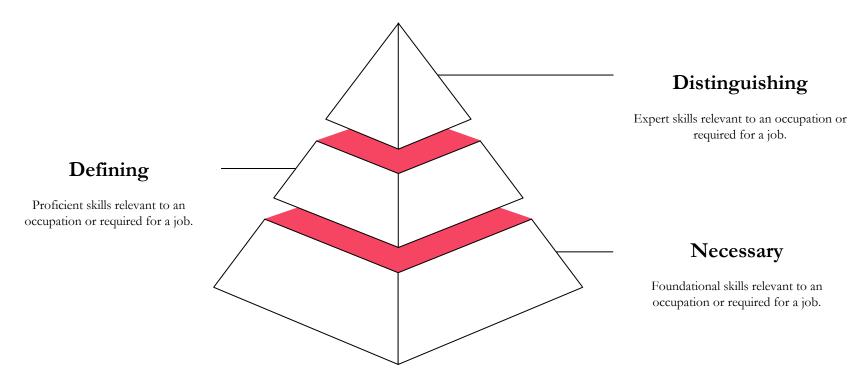


Option 1: By Specialized, Common, and Software Skill-Level





Reimagine Skilling: Necessary, Defining, Distinguishing



Whether the economy is slowing or growing, distinguishing skills are crucial.

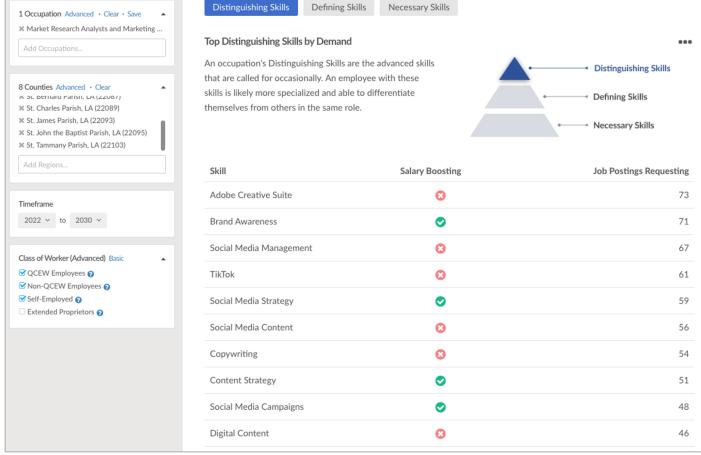


Option 2: Explore the *DDN* skills of <u>EACH</u> occupation individually





Option 2: Explore the DDN skills of each occupation individually





What is one thing that is clear from this training?

What is one thing that is muddy from this training?



Break



Reconvene in 8 minutes

Sample Form

https://docs.google.com/document/d/1jtLc2Y3P8Tix-9eT2FH3DPBLmMw-H6RW/edit



Utilizing the Tool

Website: analyst.lightcast.io

Username: LAIR Demo User

Password: lairlabor

*This trial/sample login will be active and live for you to access the Analyst tool through **August 10, 2023**



Scenario 1 – State-Level Alignment

- You work at a Louisiana Public University, where the state has instituted a goal of 60% of all working-age adults (25-64) shall hold a degree or credential by 2030. Your President, Provost, and several Deans have all agreed that this should be a priority for your institution. While there is consensus that this is a priority, what is less understood is how the institution can deliver on this goal. At a recent staff meeting, you asked the Provost how your institution would work to build programs in the right fields to ensure that we are meeting the workforce demand of the state, and she replied, "We are looking to you to help us with that one."
- How might you align current academic offerings with the labor market that aligns with the above goals?
- What challenges might you face in garnering support across campus?
- How do you respond to faculty who may, or may not benefit from a closer review of community and labor market outcomes?
- How would you know?



Scenario 2 – Provost

- You work at Louisiana Best University and your new Provost recently met with community leaders who are very interested in starting a new program in data science. From your work in institutional research, you know that data science is one of the fastest-growing programs in the United States, but you have also heard from colleagues that the demand may be slowing, particularly in Louisiana with recent tech layoffs. Your institution also has some parochial interests between the Mathematics program, the Statistics program, and the Computer Science program, of which the new Provost may not be aware. You don't want to be the party of 'no' for your new provost, but you also want to help your institution make an informed decision.
- What challenges are you facing?
- How might you resolve them?
- What data will you need?
- What stakeholder resources might you navigate?



Scenario 3 – Faculty

- Your Provost has asked your institution to conduct an academic program review and your Dean has been very involved in the development of metrics. Over the past few months, both the Provost and Dean have mentioned to you 'Our purpose is to understand the health of our programs and how we can improve.' The chair of the philosophy department is certain that this program review is in fact a 'program prioritization' designed to eliminate or consolidate lower-performing programs in terms of metrics related to graduate earnings or 'in-demand skills.' They have requested a meeting with you to discuss the matter next week.
- What challenges are you facing?
- What data may be most relevant?
- How could you address some concerns that the chair may have for you and the process?
- What stakeholders should you involve in this process?



Creating a Plan to Execute

- Create an Action Plan (Timeline of Activities and Events)
- Design a Stakeholder/Communication Plan (Provost? Director of IR? Dean(s)? Faculty? Student Success? Career Services? Students?)
- Develop Timeline (Analysis + Preparation + Presentation + Feedback)



Resources to Remember

- This Presentation and Form
- Knowledge Base
- Intercom/Lightcast Chat
- Danielle Kerr!
- Your Community



Wrapping Up: Keys to Remember

- Resources and Help Will Be Available!
- <u>Use the Sample Form</u>
- Create a Plan to Execute
- Build Stakeholder Support
- Connect with Danielle Kerr!



Thank You



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