



# In-Demand Skills Webinar

## September 2024

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# Webinar Overview

**What** are the top in-demand skills?

**Why** are skills important?

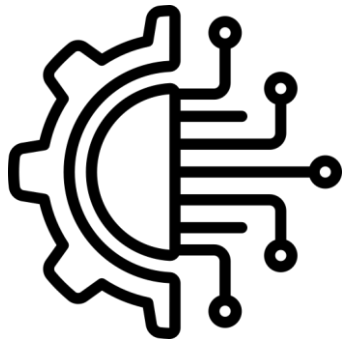
**How** can we use these data?

**What are the top in-demand skills?**

# Top Skills

How do we categorize skills into various groups?

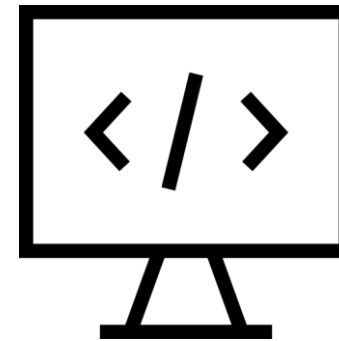
## Hard Skills



## Soft Skills




## Software Skills



# Hard Skills

Skill	Unique Postings
Project Management	1,522,656
Marketing	1,133,255
Finance	959,778
Auditing	934,035
Accounting	908,161
Nursing	867,699
Computer Science	833,341
Data Analysis	687,996
Process Improvement	576,865
Continuous Improvement Process	563,211

 Lightcast Past 12 months skills data are from Lightcast Analyst


# Hard Skills Growth

Skill	Projected Skill Growth
Business Systems	31.8%
Project Controls	31.2%
Automation	30.5%
Data Collection	29.9%
Microsoft Azure	28.9%
Customer Support	28.1%
Lean Manufacturing	28.1%
Workers' Compensation	27.9%
Financial Analysis	27.9%
Lawsuits	27.7%

 Lightcast Minimum 1000 postings; projected over next 24 months from Lightcast Analyst

# Soft Skills

Skill	Unique Postings
Communication	4,754,235
Management	3,631,974
Leadership	2,822,356
Operations	2,443,967
Customer Service	2,150,219
Planning	2,018,724
Problem Solving	2,002,565
Writing	1,766,437
Sales	1,741,285
Detail Oriented	1,547,554

 Lightcast Past 12 months skills data are from Lightcast Analyst

# Soft Skills Growth


Skill	Projected Skill Growth
Virtual Collaboration	63.9%
Program Management	30.5%
Mental Stamina	29.4%
Relationship Management	27.1%
Business Objectives	26.2%
Innovation	25.8%
Professional Communication	25.5%
Change Agility	24.7%
Consulting	24.6%
Deductive Reasoning	24.4%

 Lightcast Minimum 1000 postings; projected over next 24 months from Lightcast Analyst



# Software Skills

Skill	Unique Postings
Microsoft Office	1,463,676
Microsoft Excel	1,444,312
Microsoft PowerPoint	897,857
Microsoft Outlook	642,160
Microsoft Word	410,759
SQL	392,664
Python	374,820
SAP Applications	247,463
Salesforce	245,978
Spreadsheets	235,232

 Lightcast Past 12 months skills data are from Lightcast Analyst

# Software Skills Growth

Skill	Projected Skill Growth
Microsoft Azure	28.9%
Microsoft PowerPoint	26.1%
Microsoft Outlook	25.0%
Salesforce	24.7%
Python	24.5%
SolidWorks (CAD)	24.1%
JIRA	24.1%
Amazon Web Services	24.0%
ServiceNow	22.8%
Kubernetes	22.0%

 Lightcast Minimum 25,000 postings; projected over next 24 months from Lightcast Analyst

# Skill Breakdowns

We start with larger in-demand skill areas to identify specific skillsets.

## Communication

- ↳ Writing | Interpersonal Communication | Presentations
- ↳ Microsoft PowerPoint | Microsoft Word

## Data Analysis

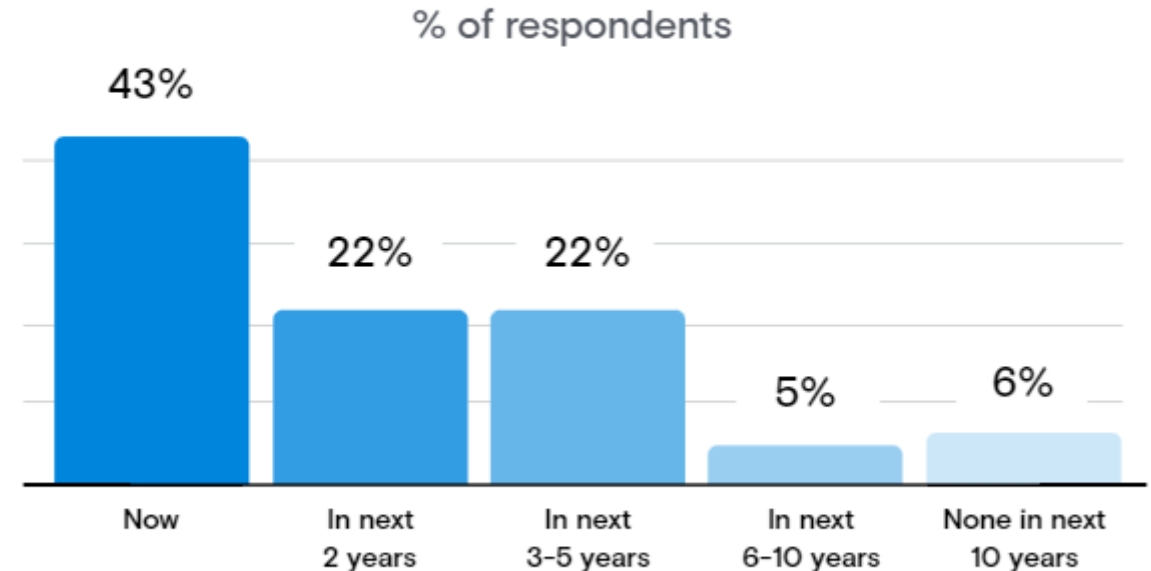
- ↳ SQL | Power BI | Dashboards
- ↳ Problem Solving | Continuous Process Improvement

**Why are skills important?**

# Address Skill Gaps

- "Skill gap" refers to the space between the skills that companies need, and the skills employees or candidates possess.
- According to [McKinsey & Company](#), skills gaps are already present and will continue to persist (likely widen) within organizations for the foreseeable future.
- By 2030, the talent shortage and skills gap in the U.S. is expected to total a loss of \$8.5 trillion. ([PwC](#))
- Causes of Skills Gaps
  - Retirements / Turnover
  - Shortage of Qualified Candidates (to fill new roles)
  - Shortage of Experienced Candidates (to fill skilled roles)

## When skill gaps are expected to occur within organizations



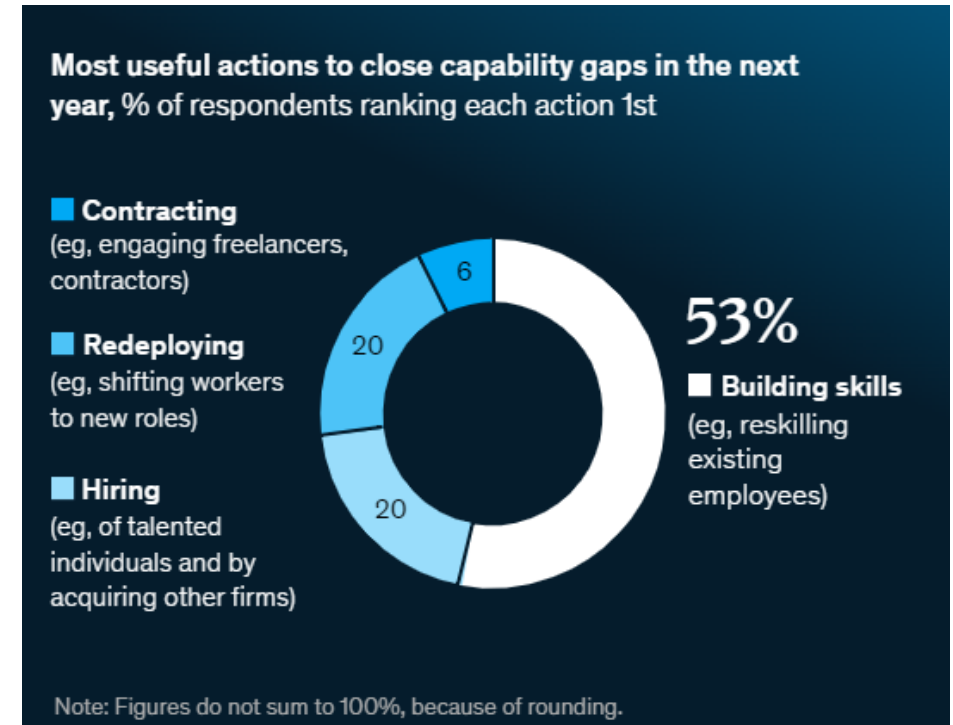
*Five fifty: The skillful corporation. McKinsey & Company. (n.d.)*

# Examples of Workplace Skill Gaps

- **Technology**
  - Technological literacy equals the ability to utilize new tools and software effectively
  - Notable in industries experiencing rapid changes
- **Data Analysis**
  - Inability to analyze data effectively affects decision-making and the strategic planning process
  - Reinforces the need to adapt to new technology
- **Project Management**
  - PM includes planning, execution, and monitoring projects
  - Affects on-time delivery, budget, and quality standards
- **Emotional Intelligence and Interpersonal Skills**
  - Lack or struggle with empathy, self-awareness, and managing relationships
  - Impacts teamwork, customer service, and the office environment
- **Leadership and Management**
  - Lack of the ability to inspire, guide, and manage teams
  - Could also include lack of communication, delegation, and conflict resolution

# Meet Industry Demand

- Organizations and employees are more committed to reskilling/upskilling
  - Workers want to reskill. 77% are ready to learn new skills or completely retrain. ([PwC Global](#))
- Roles are shifting quickly
  - Technological innovations and changes
    - AI and Workplace Automation – 56% of hiring managers anticipate AI and other forms of workplace automation will cause a major shift in the types of skills they will require from employees ([Salesforce](#))
  - Education requirement changes
    - Strong emphasis on skills and competencies
  - Connect job description to career growth



Five fifty: The skillful corporation. McKinsey & Company (n.d.)

# Skills-Based Hiring and Higher Education

## Skills-Based Hiring

- TestGorilla's [State of Skills-Based Hiring 2024](#) report stated 81% of employers use skills-based hiring (1,019 total employers surveyed), which is up from 56% in 2022 and 73% in 2023.
- Emphasis of skills over degrees

## Higher Education

- More employer collaboration in higher education
- Clearer translation or emphasis on skills gained in degree programs that align with job requirements
- Create a "shared success model" for companies and higher education institutions





# Leaders of Skills Training

Who is leading the charge in reskilling or upskilling the workforce?

- Online course platforms

- Coursera
- edX
- LinkedIn Learning
- Skillshare
- Udemy

The logo for Coursera, featuring the word "coursera" in a blue, lowercase, sans-serif font.The logo for LinkedIn Learning, featuring the "in" icon in a blue square followed by the word "Learning" in a blue, sans-serif font.The logo for Udemy, featuring a purple hat icon above the word "Udemy" in a black, sans-serif font.The logo for edX, featuring the letters "ed" in white on a dark blue square, followed by a large "X" in a dark blue square.The logo for Skillshare, featuring the words "SKILL SHARE." in a bold, black, sans-serif font.

- Companies or Organizations

- Amazon
- SHRM
- IBM
- Google

**How can we use these data?**

# We can explore skills relevant to Next-Gen K-State



Community Health & Well-Being



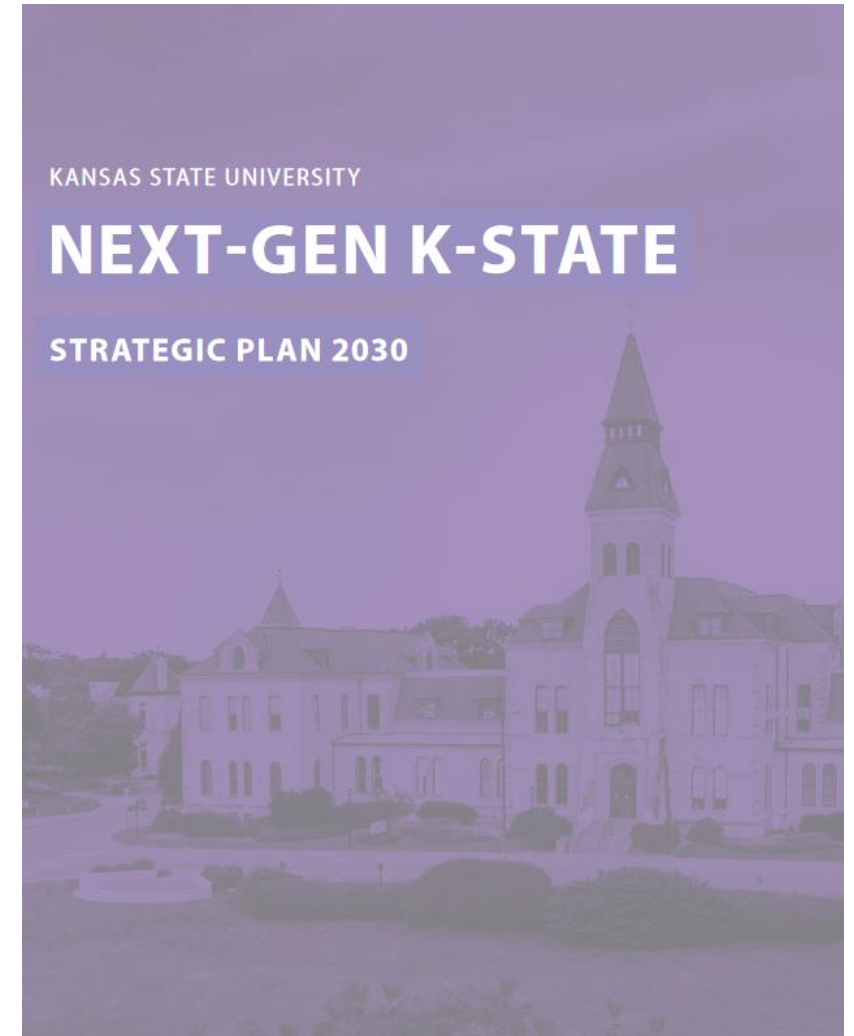
Sustainability



Global Food Security & Biosecurity



Enabling Technologies



Community Health & Well-Being

# Strategic skills include combination of common and specialized skills

**Building Skills for a  
More Strategic Public  
Health Workforce:  
A Call to Action**

National Consortium for Public Health  
Workforce Development




Systems Thinking  
Change Management  
Persuasive Communication  
Data Analytics  
Problem Solving  
Diversity and Inclusion  
Resource Management  
Policy Engagement

## Community Health & Well-Being

# Skills with most growth pertain to policy & patient care and outreach



 Lightcast Two-year skill projections (2024 to 2026) are from Lightcast Analyst

Sustainability

# Green skills are in-demand... but few workers possess them

75%

Employers planning to recruit for green jobs & skills



Only 1 in 8 workers has more than one green skill

Global Insights White Paper



Building Competitive Advantage with


## A People-First Green Business Transformation



## Sustainability

# Skills with most growth pertain to design, planning/policy, & greenhouse gases



 Lightcast Two-year skill projections (2024 to 2026) are from Lightcast Analyst

# Biosecurity skills emphasize risk assessment, prevention, and policy development



BROWN



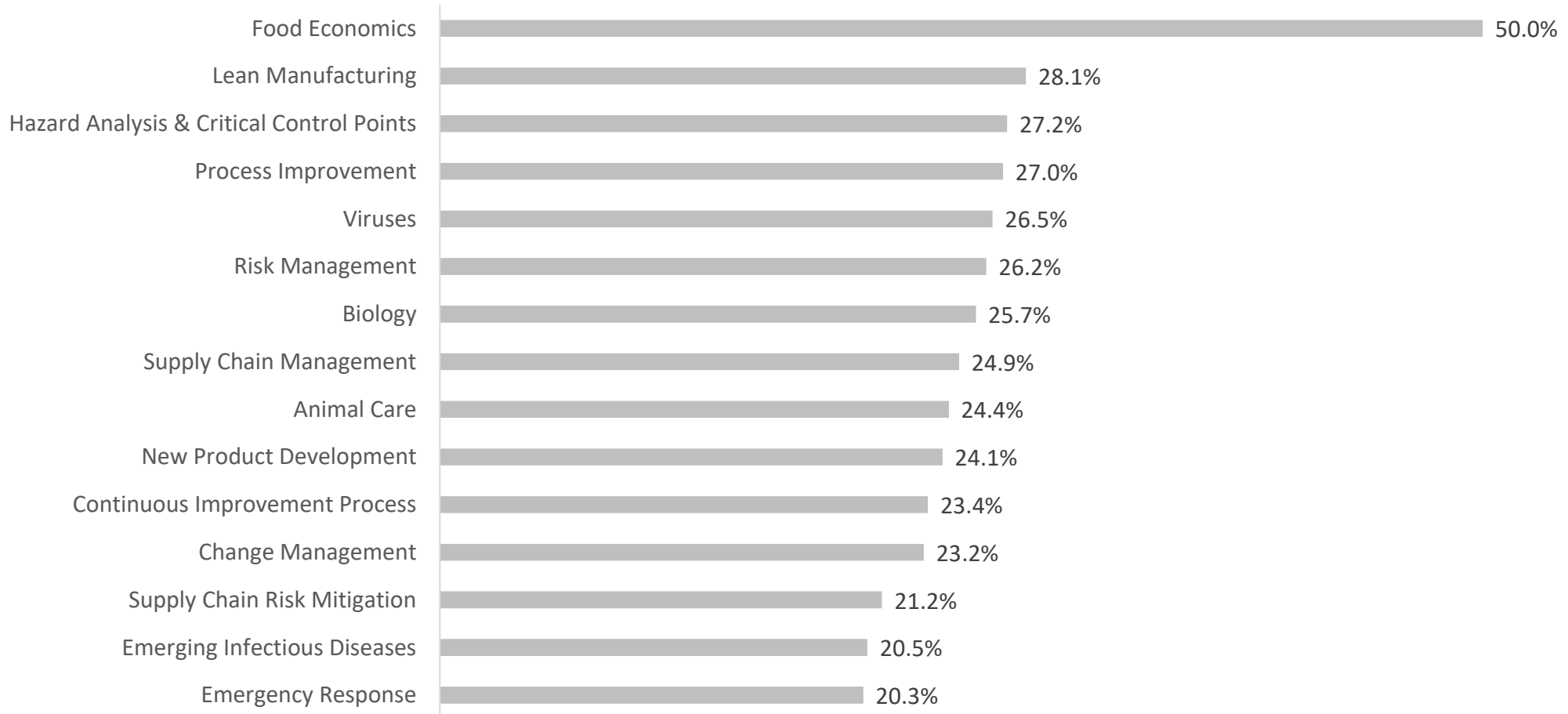
THE PANDEMIC CENTER  
BIOSECURITY  
GAME CHANGERS


- Understand different types of emerging biological risks
- Assess emerging biological risk scenarios
- Identify actions to prevent, detect, and respond to risks
- Formulate recommendations and put into action
- Develop and pitch options to senior leaders



## Global Food Security & Biosecurity

# Skills with most growth pertain to supply chain, emergency management, & processes



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Enabling Technologies

# AI skills are increasingly important in an ever-changing workplace



November 2023

## Future of Work Report

AI at Work

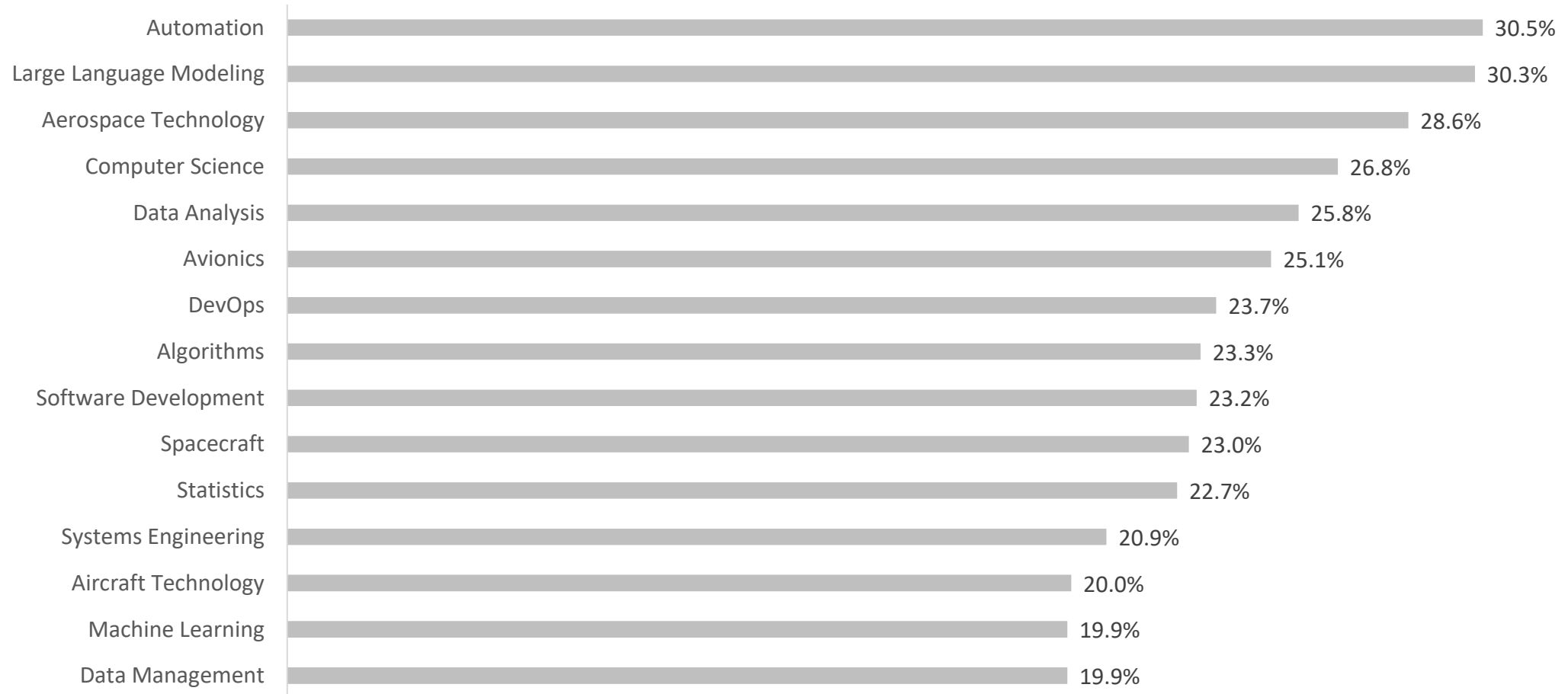
LinkedIn


Data Structures  
Pattern Recognition  
Natural Language Processing  
Machine Learning  
Deep Learning

AND...  
Communication  
Analytical Thinking  
Leadership  
Problem-Solving

## Enabling Technologies

# Skills with most growth pertain to AI/ML, aviation/aerospace, & statistics



 Lightcast Two-year skill projections (2024 to 2026) are from Lightcast Analyst

# A few reminders...



These sets of skills are not exhaustive



We can dig deeper by occupation, industry, & program



K-State is well-positioned to address skills

**So, what can we do?**

# Review your curriculum



Ensure it aligns with workforce needs



Identify what competitors are doing



Integrate in-demand skills into curriculum



**KANSAS STATE**  
UNIVERSITY

Market Intelligence and Analysis

# Promote skills where possible



UNIVERSITY OF NEBRASKA OMAHA

## Knowledge & Skills Gained as a Geography Major:

### Knowledge:

- Understand how human activities, landscapes, and other physical, biological, and cultural phenomena vary across space, and the factors that influence these patterns.
- Geography graduates understand the relationships between society and the environment; both how people affect natural systems (and how natural systems affect people).
- Awareness of the causes and implications of an increasingly connected world and how geography and geopolitics are related to domestic and foreign policy decision

### Skills:

- Creative problem-solving, able to communicate with a diverse audience and apply practical analytical and technical skills in a diversity of settings
- Ability to read, analyze, and construct maps for a variety of purposes and audiences. Use geographic information systems software and other applications to display and analyze spatial data
- Use geographic techniques and perspectives to address a variety of contemporary issues such as demographic changes, economic inequality, environmental justice, urbanization, and more
- Understand and appreciate the value of different cultures and perspectives.

# Create skills-based credentials

Consider modality...

... and audience

**80%**

Of adults would consider online modality if enrolling in a program



CHAMPLAIN  
COLLEGE  
ONLINE /

**36.8 Million**

“Some College, No Credential” population under the age of 65



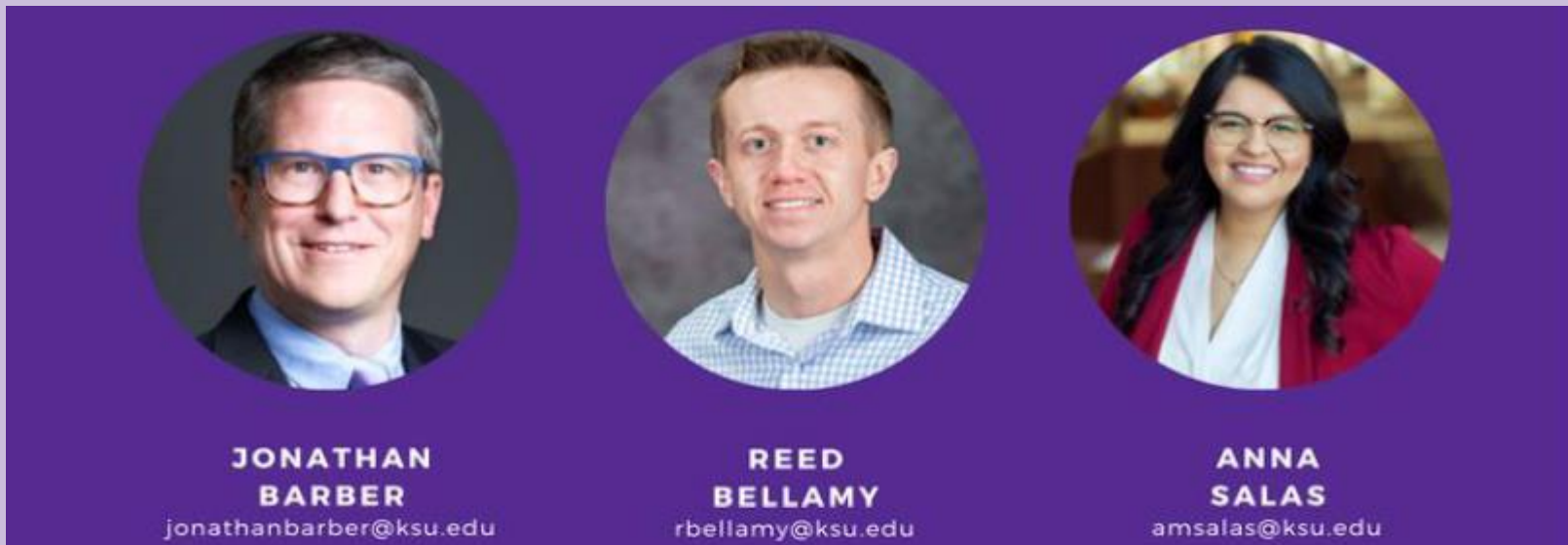
National Student Clearinghouse™  
Research Center™



# Next Steps?

Questions and discussion

Work with us



[marketanalysis@ksu.edu](mailto:marketanalysis@ksu.edu)

<https://www.k-state.edu/academic-affairs/academic-innovation-center/market-research/>

# Center for Academic Innovation Links

Market Intelligence & Analysis

Strategic Program Development & Management

# Resources & Links

[Lightcast Analyst](#)

[McKinsey Quarterly “The Skillful Corporation”](#)

[PWC “The Lost Workforce: Upskilling for the Future”](#)

[PWC “Global Workforce Hopes & Fears Survey 2024”](#)

[TestGorilla “The State of Skills-Based Hiring 2024”](#)

[National Consortium for Public Health Workforce Development “Building Skills for a More Strategic Public Health Workforce”](#)

[ManpowerGroup “Building Competitive Advantage with A People-First Green Business Transformation”](#)

[Brown University “Biosecurity Game Changers Fellowship Program”](#)

[LinkedIn “Future of Work: AI at Work 2023”](#)

[Champlain College Online 2023 Survey](#)

[National Student Clearinghouse Research Center “Some College, No Credential Report”](#)