

# Careers in Biomedical Sciences

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# Outline

Our approach

Bioeconomy

Career management strategies



# Careers in Biomedical Science



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**What is a career exactly?**





**What does the word career  
mean to you?**



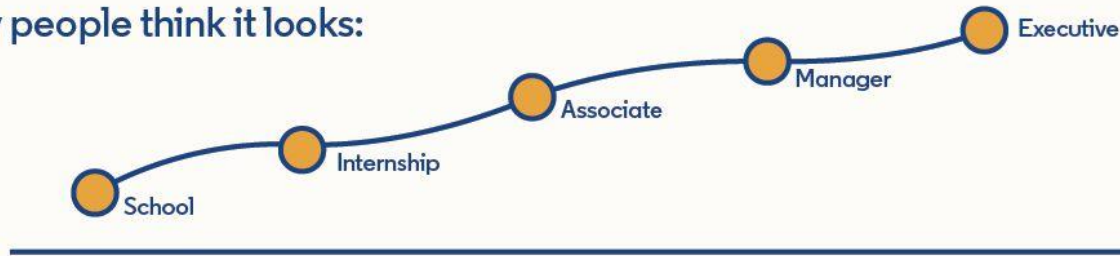
# What is a career exactly?

The term career refers to the sum of your work (paid or unpaid), learning (formal & informal) and leisure activities throughout your life. In other words, career is the sum of all experiences.



# Careers are non-linear

The way people think it looks:



How it can also look:





Our approach to career development encourages action and reflection.

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**Did you plan to do this research project  
when you started your degree at the U of A?**



An aerial photograph showing a light-colored, winding road that curves through a dense, green forest. The road starts from the top left and winds its way towards the bottom left, disappearing into the trees. The forest is thick with various shades of green, suggesting a healthy, mature woodland.

# A Next Steps Approach

*“Like the weather, we might be able to predict what’s going to happen tomorrow, or the day after, but as the time horizon moves out on to weeks, months or years...it becomes almost next to impossible to make predictions.”*

*– Jim Bright*

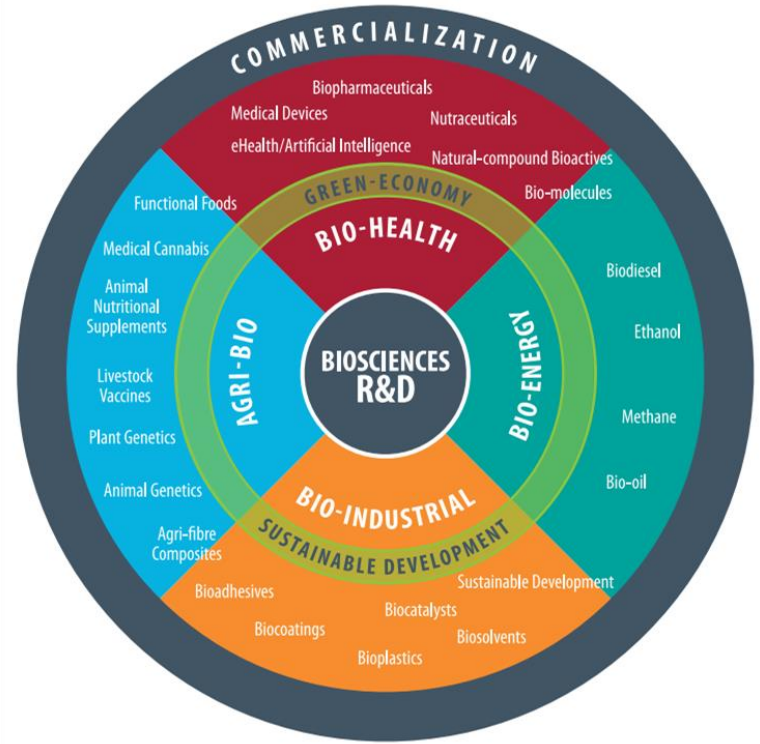


**What are the careers in  
biomedical sciences that  
you know of?**

# The Bioeconomy

## What is it?

“The bio-economy is defined as the economic activity associated with the invention, development, production and use of primarily bio-based products, bio-based production processes and/or biotechnology-based intellectual property.”





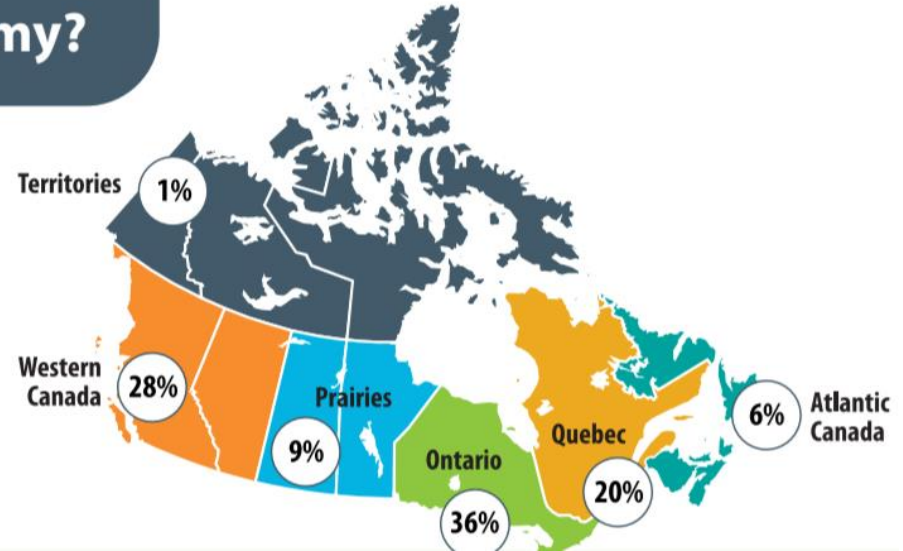
# The Bioeconomy

## Who makes up the bio-economy?



### THE COMPANIES

~**12,000** bio-economy  
organizations Canada-wide\*



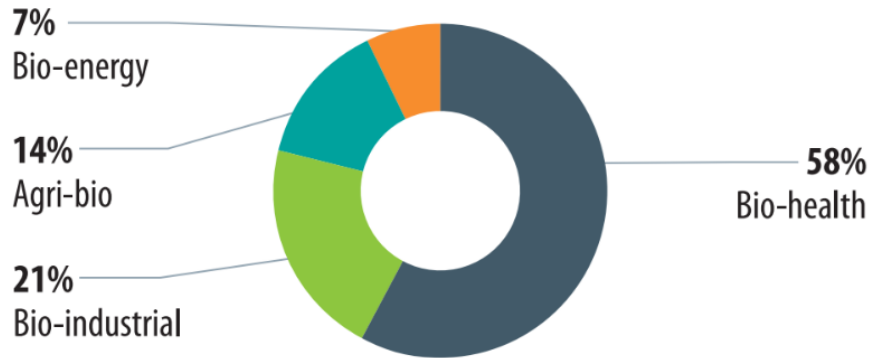
In Alberta, **391** life sciences companies received the BioAlberta State of the Industry ("SOI") survey

*Labour Market Information (LMI) National Report, BioTalent Canada (2021)*

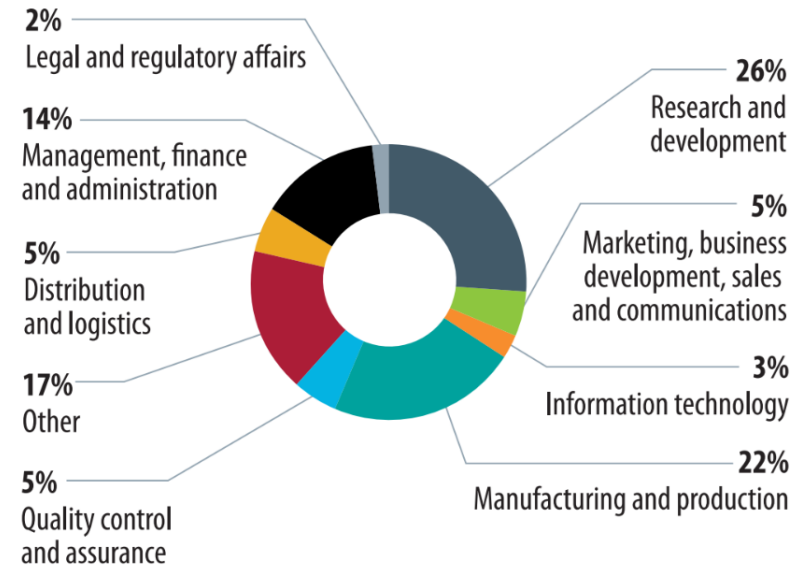
*State of the Industry (SOI) Report, BioAlberta (2023)*

# Jobs in the bioeconomy

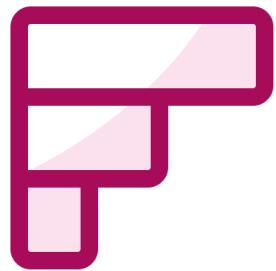
## Most work in bio-health



## Job functions cover a wide range



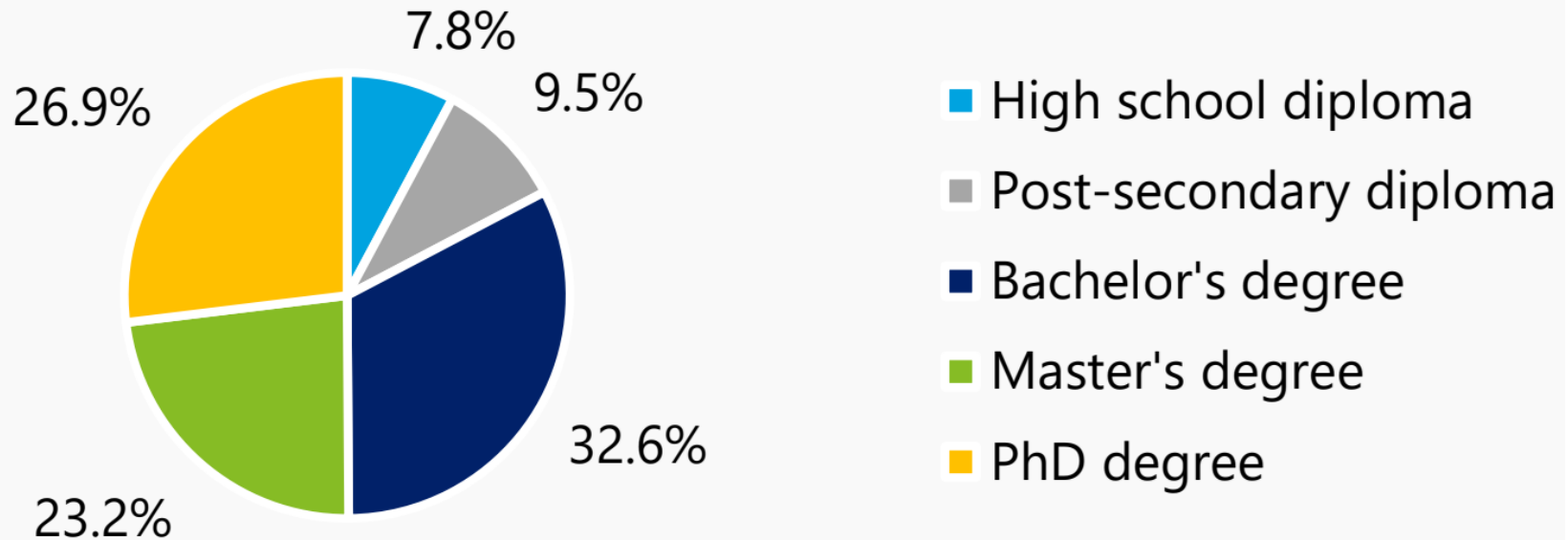
**How can I learn more about a specific job?**



# Rank these skills by importance for employers seeking workers

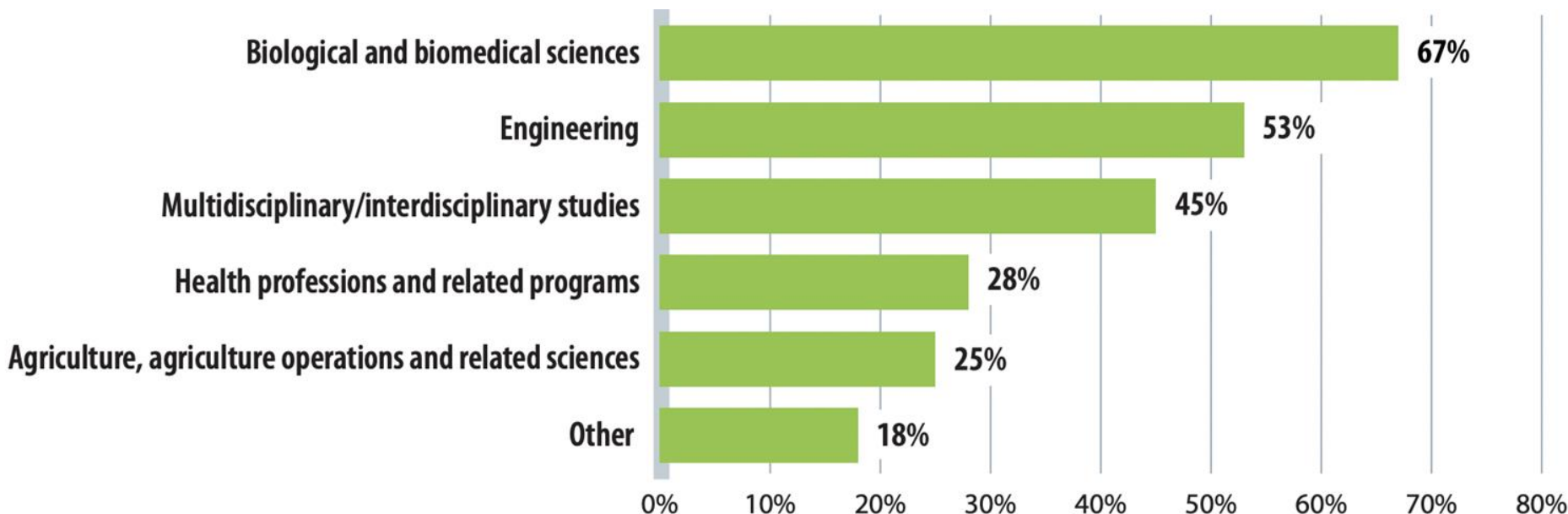


# Level of education of bio-economy employees





# Top fields of study for employers



# Hiring in Alberta: 2023 - 2030

## Bio-health

- Estimated 3,400 workers
  - Clinical positions (32%), research and development (26%), management, finance and administration (13%), manufacturing/production (13%)

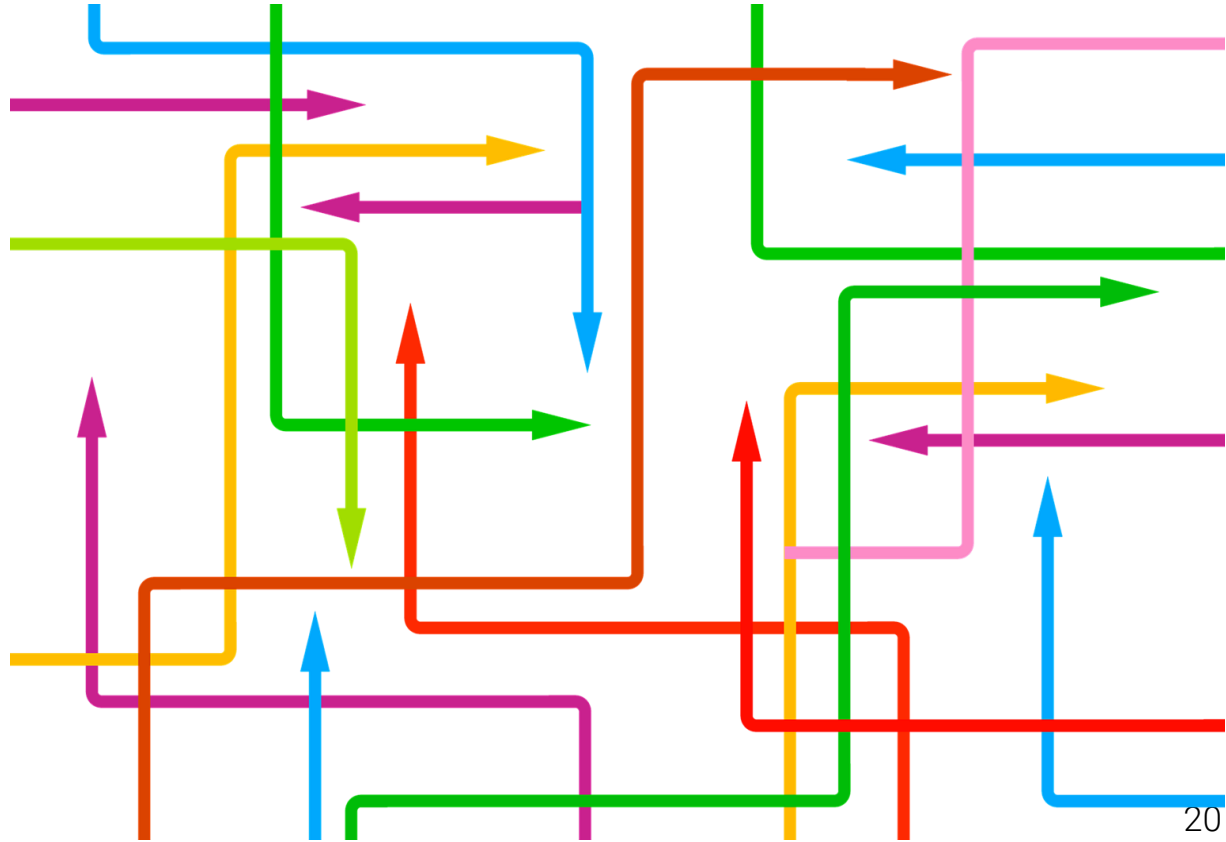
## Bio-industrial

- Estimated 1,200 workers
  - Manufacturing (36%), research and development (18%), management, finance and administration (15%)

# Employment by sector: 2025 - 2030

YEAR	TOTAL	BIO-HEALTH	BIO-INDUSTRIAL	AGRI-BIO	BIO-ENERGY
2025	24,438	11,286	4,156	7,381	1,615
2026	24,685	11,406	4,214	7,431	1,634
2027	24,986	11,569	4,268	7,490	1,659
2028	25,309	11,787	4,309	7,536	1,677
2029	25,701	12,031	4,369	7,605	1,696
2030	26,065	12,270	4,414	7,669	1,712

# Keep multiple options open





# Tell your story in different ways



# Build and maintain relationships



# Take risks



# Reflection Questions

- Consider what success looks like to you
- Examine what your past experiences have told you about your values
- Revisit and revise your vision of success as it evolves
- What have I done recently to step out of my comfort zone?
- How can I combine my skill sets to create unique opportunities?
- What skill gaps do I have? Where can I develop these?

# Bio-economy Resources



<https://www.biotalent.ca/>

Job Board: The PetriDish  
Biocareer pathways  
Bio-economy career profiles



<https://bioalberta.com/>

Member directory by category  
Events  
Work Integrated Learning



<https://lifesciencesbc.ca/>

Job Board  
Member directory  
Events

# Bio-economy Resources



<https://medtechcanada.org/>

Medical technology  
Directory

## Undergraduate Research Initiative

- Research Careers in Government & Industry (online)  
Thursday, June 26, 12 - 1 p.m.  
Register on campusBRIDGE

## Science Internship Program

INTERNSHIP AND CAREERS FOR STUDENTS PURSUING SCIENCE DEGREES



# TYPES OF ADVISING APPOINTMENTS

We offer four types of advising appointments:

Career Advising

LinkedIn Profile Critique

Mock Interview

Document Reviews: Resume, CV, Cover Letters

CAREER CENTRE PRESENTS

## CAREER Café

Drop-in for career conversations, coffee/tea and connection.

Friday, June 27 | 9 a.m. to 10:30 a.m.

2-100 Students' Union Building

No registration required.

## Career Mentoring Program

### Career Conversations

Learn from others' career stories.



### Job Shadow Program

Connect with professionals to learn from their career stories.

Career Centre



## DROP-IN ADVISING



## Audience Q&A

# References

BioTalent Canada, Close-Up on the Bio-Economy: National Report

<https://www.biotalent.ca/wp-content/uploads/BioTalent-Canada-LMI-National-Report-13OCT2021-1.pdf>

BioAlberta, Labour Market Information Study (Summary Report)

<https://bioalberta.com/wp-content/uploads/2023/09/BioAlberta-LMI-Summary-Report.pdf>

BioAlberta, Life Sciences in Alberta State of the Industry (SOI) 2023

[https://bioalberta.com/wp-content/uploads/2023/09/BioAlberta-State-of-the-Industry-2023-Report\\_.pdf](https://bioalberta.com/wp-content/uploads/2023/09/BioAlberta-State-of-the-Industry-2023-Report_.pdf)

# Skills rated very important by employers

