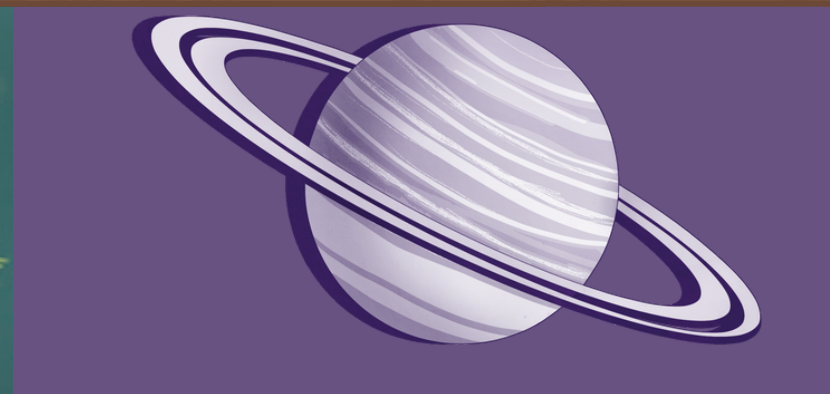
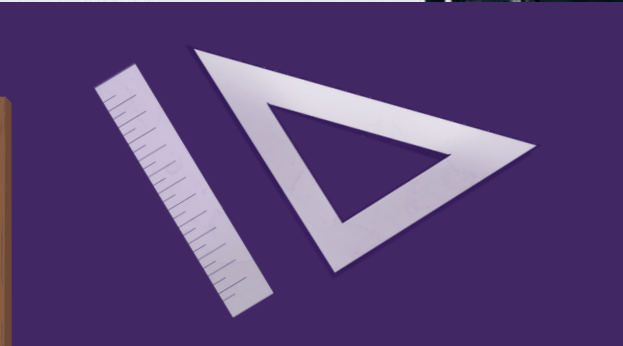
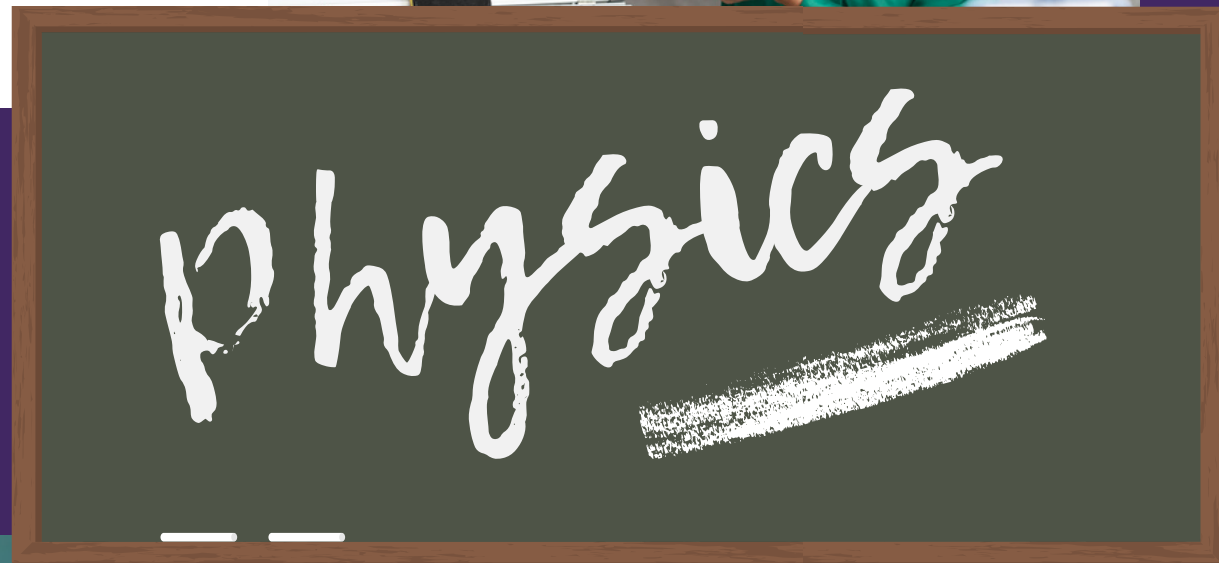
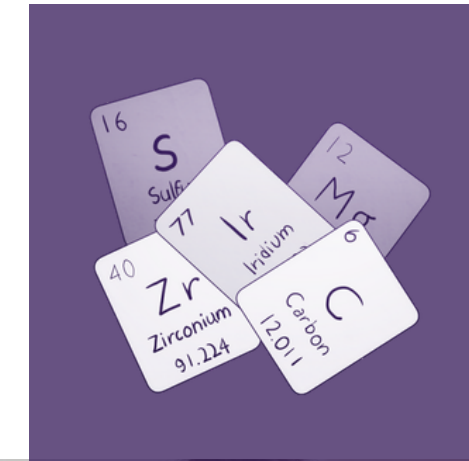
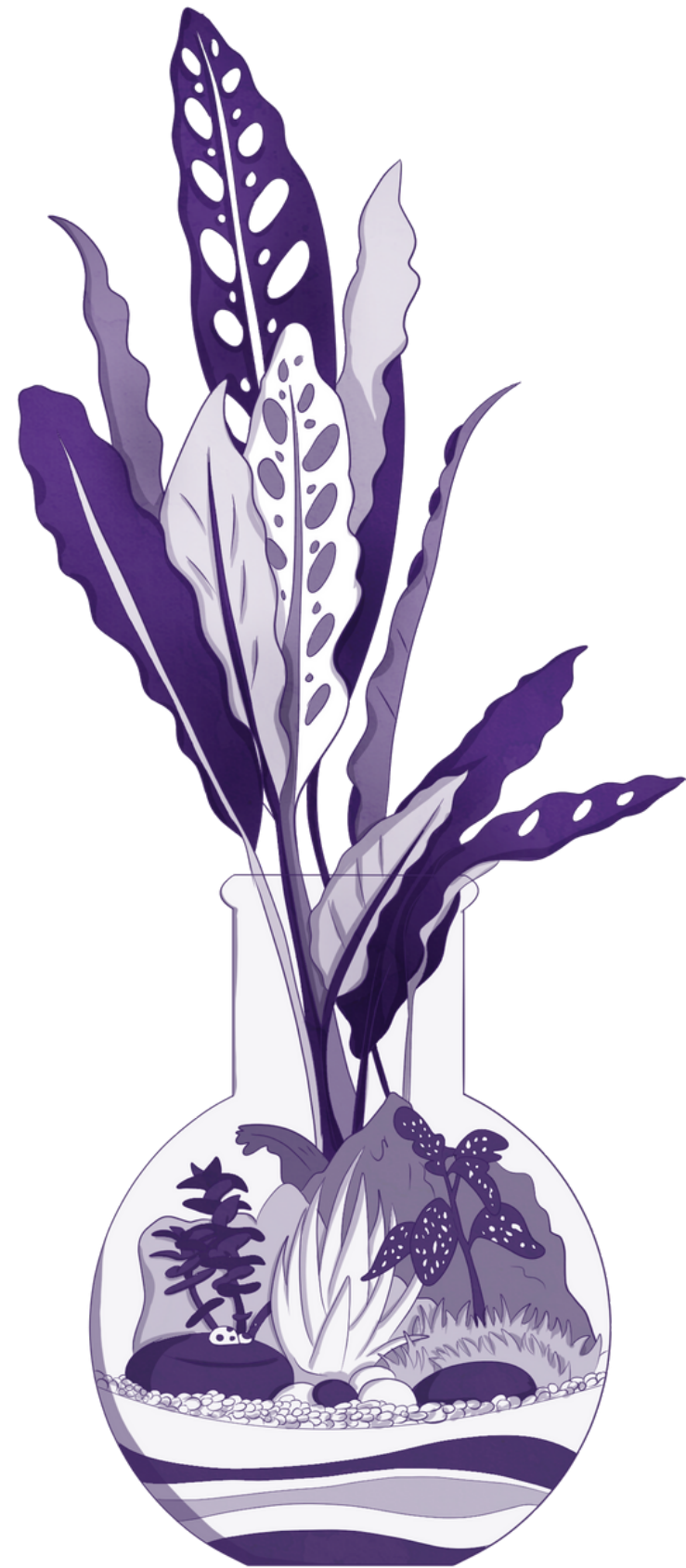


# Career Guidebook





# Mathematics



# Physics



# Computer Science

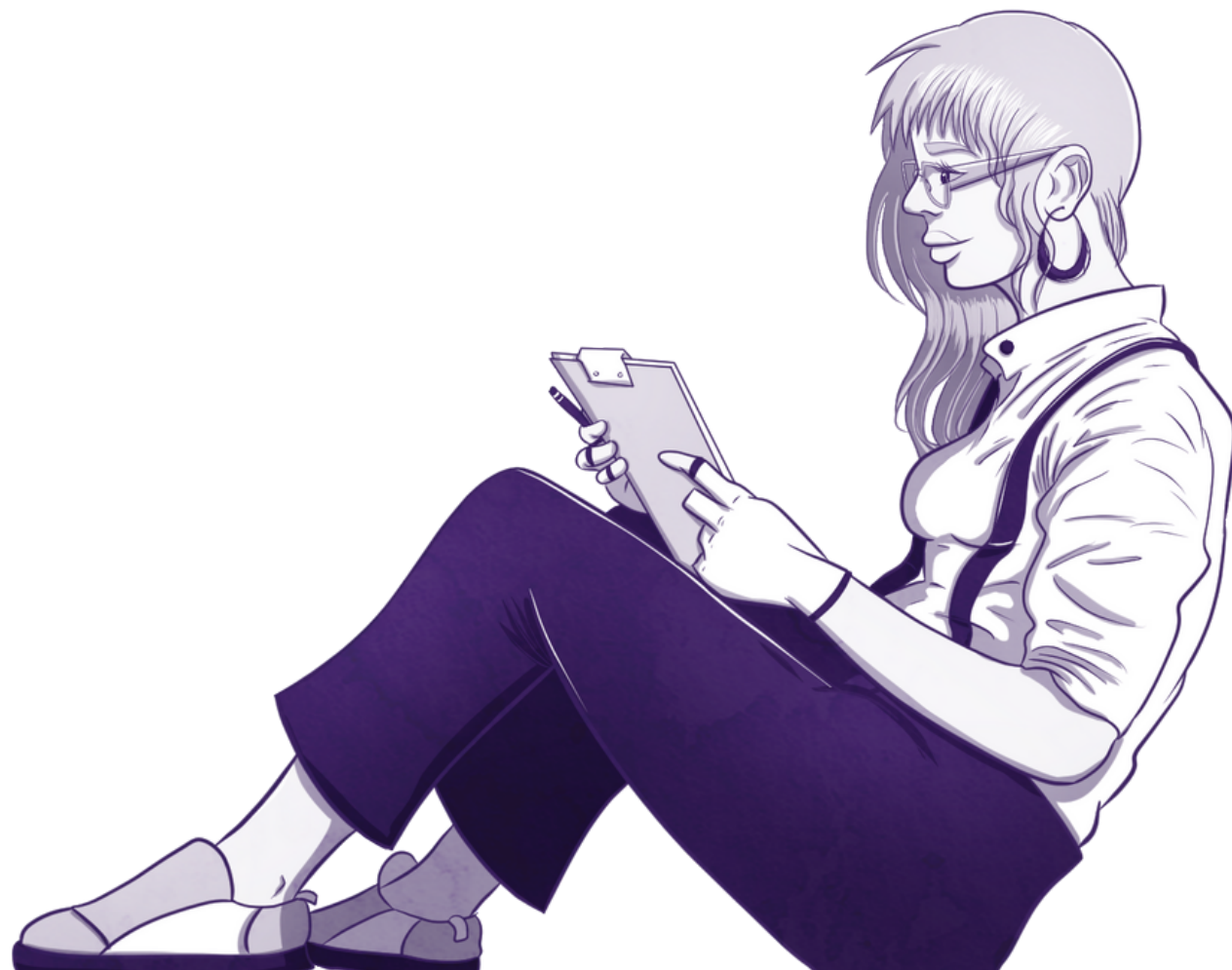


# Education and Careers in Physics

A universe of possibilities for stimulating  
projects and challenges



# Guide Content



**01** Profile of a physicist

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**02** Training in Quebec

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**03** Career Fields

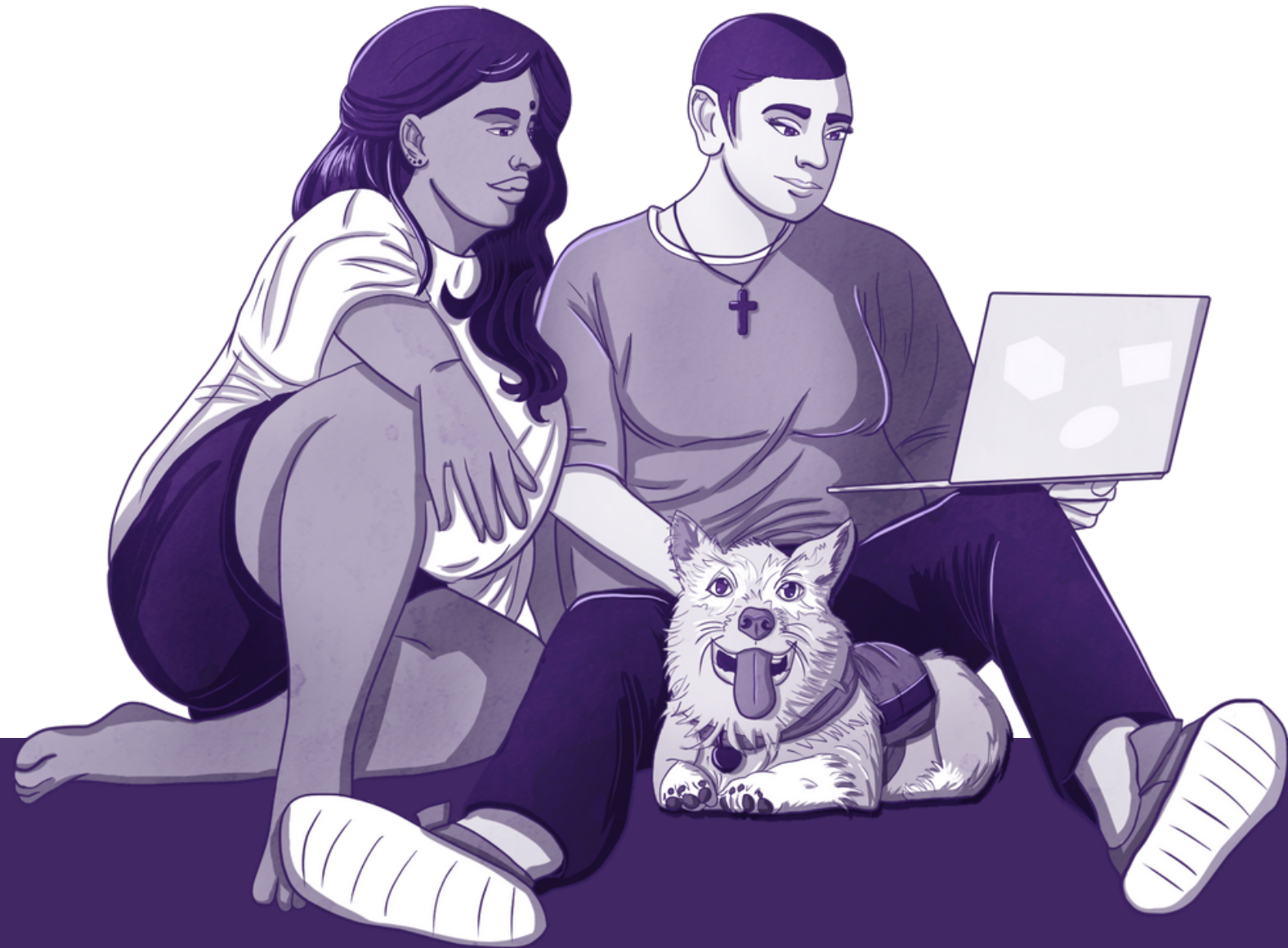
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**04** Testimonials

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**05** Remuneration

# 01 Profile of a Physicist



# A Physicist

## Is

- Curious
- Versatile
- Rigorous
- Ressourceful
- Creative

## Like

- Problem-solving
- Collaborative teamwork
- To communicate

## Has

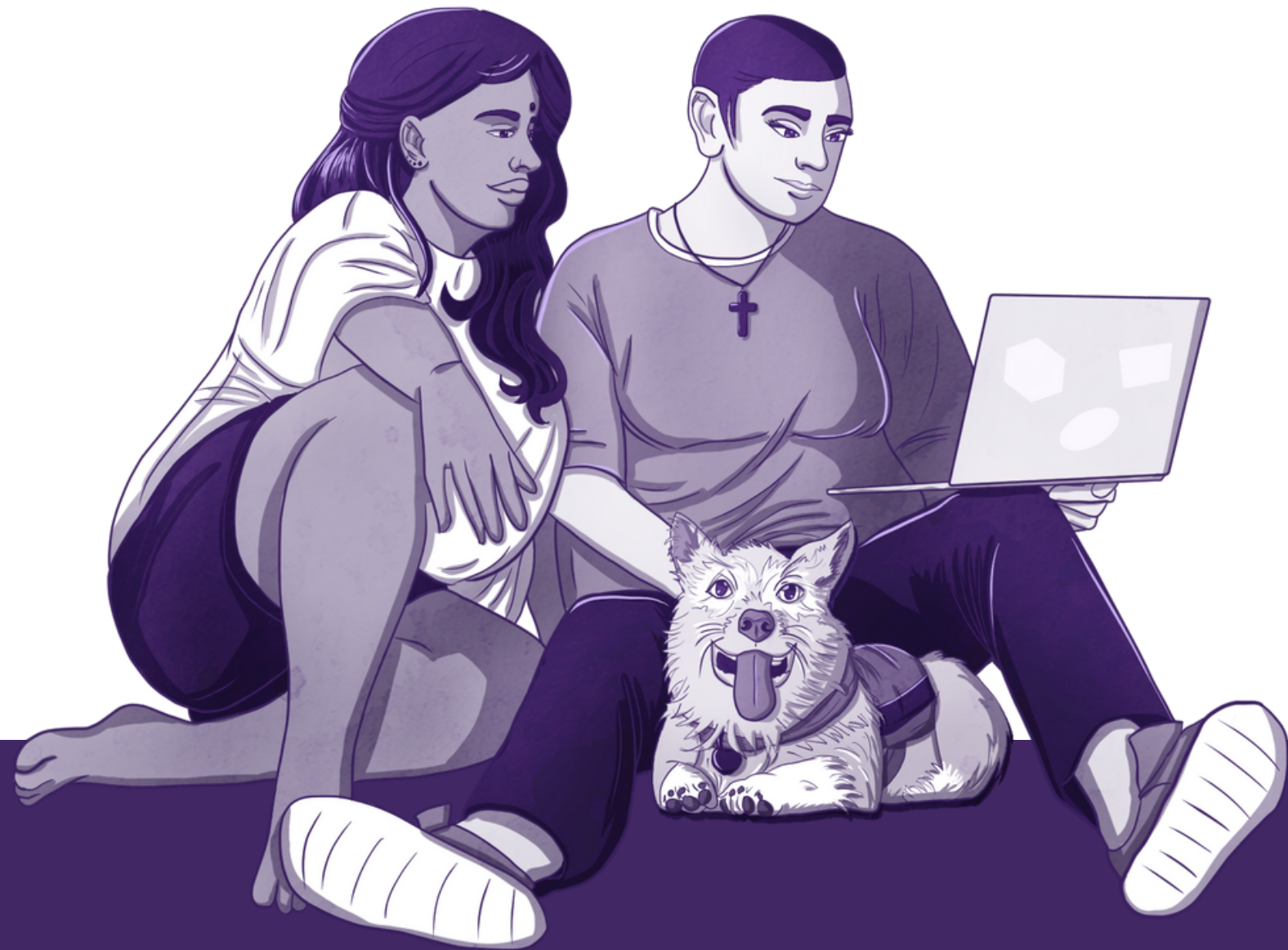
- Organizational skills
- Critical thinking

## Can

- Work efficiently
- Be independent

# 02 Training

Career Trajectories



# Pre-University Programs

Lead to a Diploma of College Studies (DEC)

## Natural Sciences

**Duration: 2 years**

Specific training: biology, chemistry, mathematics (differential and integral calculus, linear algebra and vector geometry), physics



## Computer Science and Mathematics

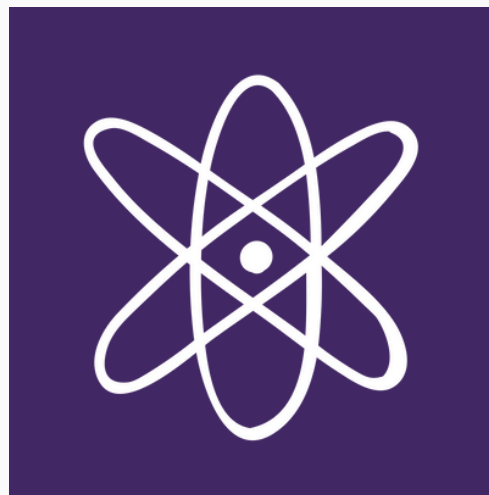
**Duration: 2 years**

Specific training: chemistry, computer science, mathematics (differential and integral calculus, linear algebra and vector geometry, discrete mathematics), physics





# Bachelor of Physics



## First Cycle

**Duration: 3 years**

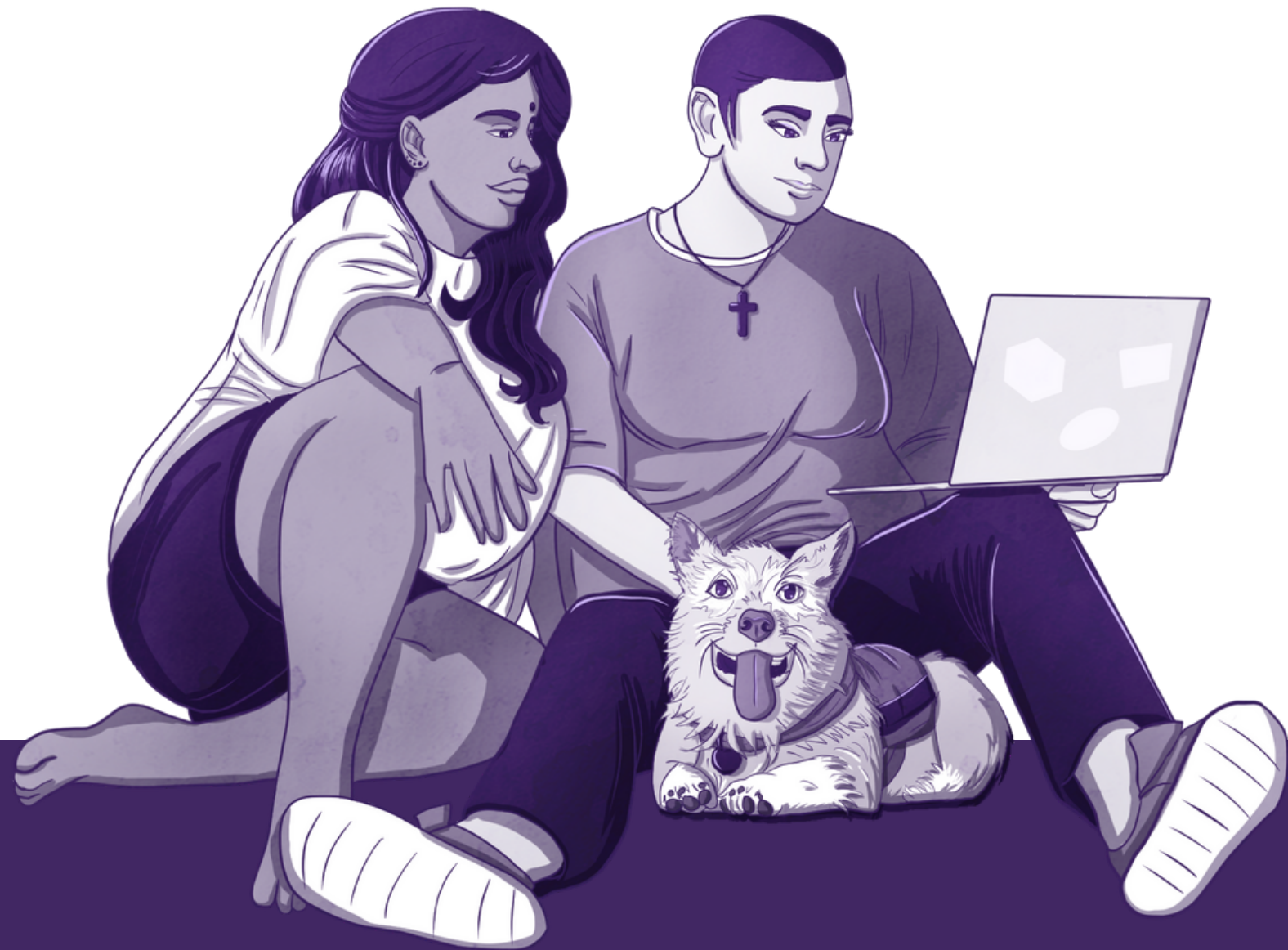
**Credits: 90**

**Minimum R-score varies by university**

Mandatory courses: electromagnetism, waves and vibrations, classical mechanics, relativity, thermal and statistical physics, optics and electromagnetic waves, quantum mechanics, numerical physics, experimental physics, optics laboratory, calculus, linear algebra

# 03 Career Fields

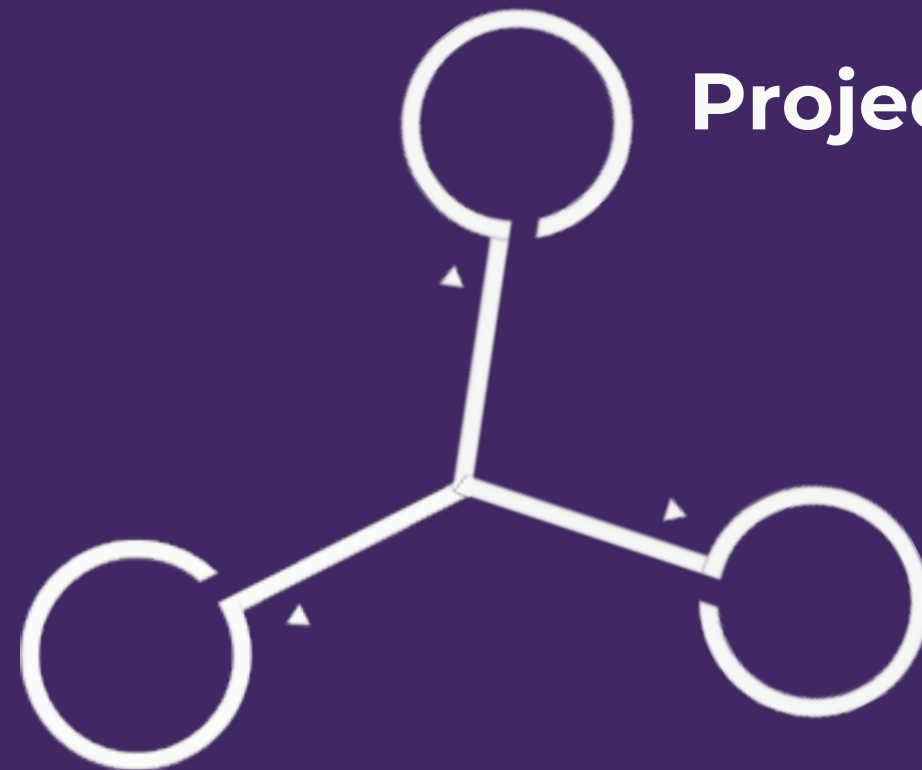
Different Sectors Hire Physicists





# Administration and Management

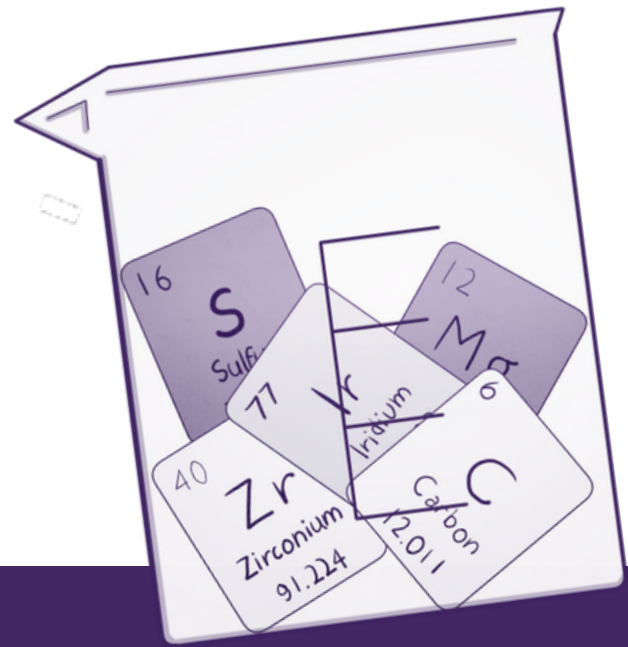
Management of  
laboratories/services



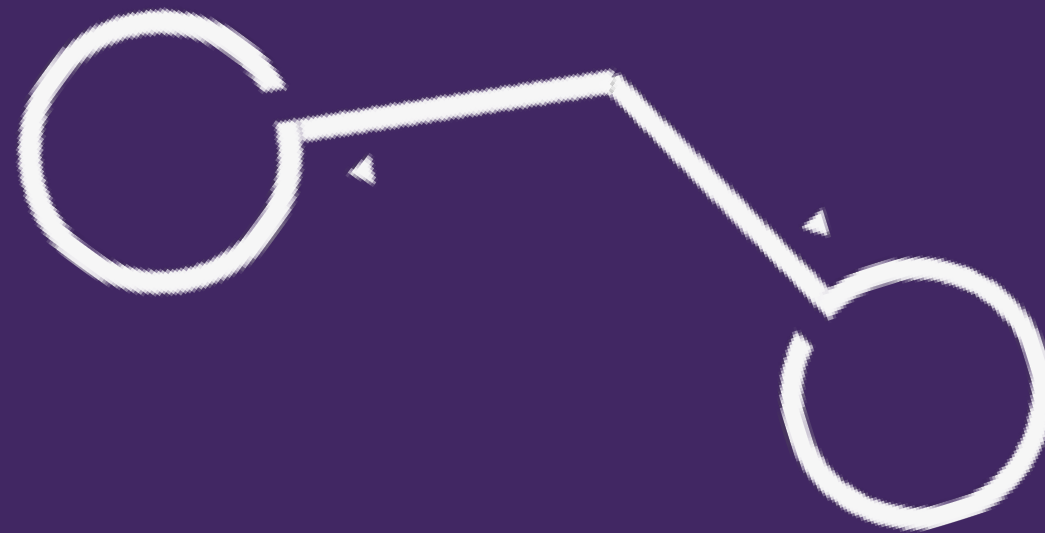
Project coordination

Program and policy  
development

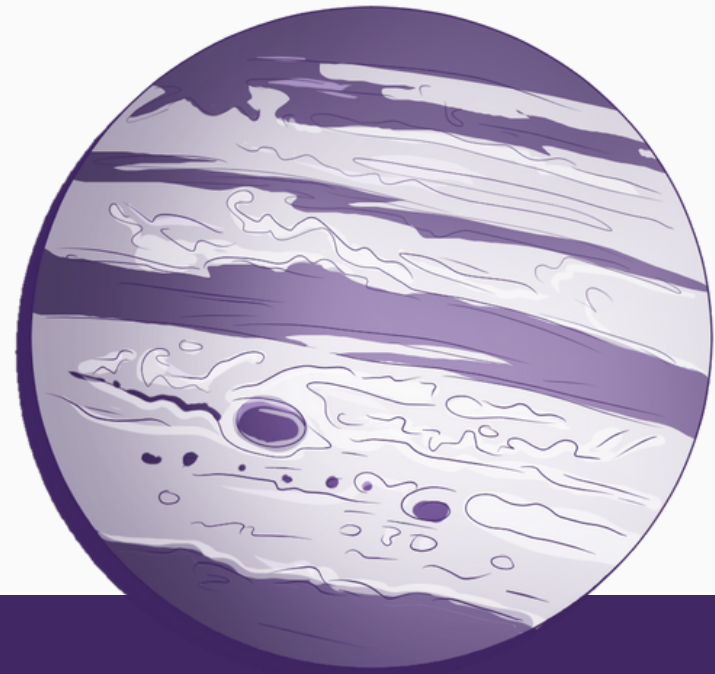
# Teaching and Research



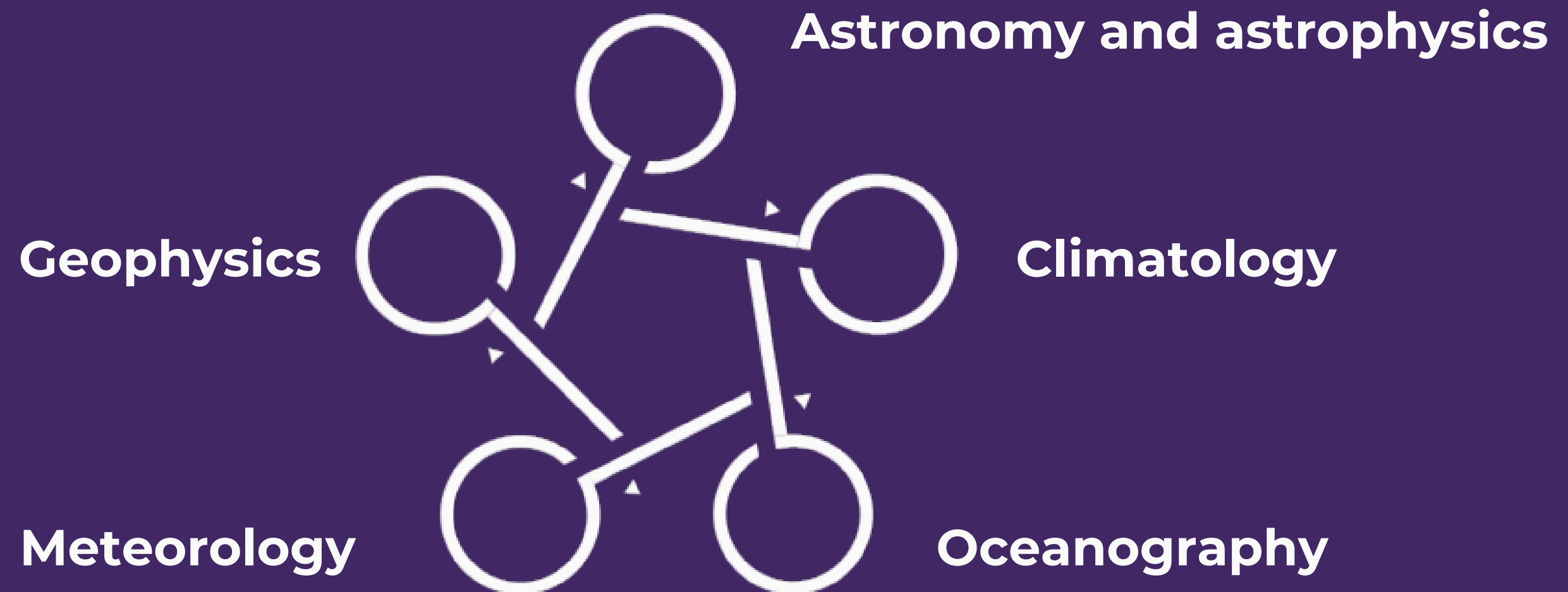
College level



University level



# Environmental and Atmospheric Sciences





# High Tech

**Nanotechnology**

**Optics and  
photonics**

**Satellites and  
remote sensing**

**Telecommunications**

**Electronics and IT**





# Health

**Radiotherapy and  
radio-oncology**



**Biomaterials and  
bio-equipment**

**Medical imaging and  
electrophysiology**

**Lasers**

# Examples of Employers



- Mining and petroleum Industries
- Finance/economic sector
- Aerospace industry

- Consulting firms
- Electronic industries and telecommunications
- Parastatal industries
- Video game sectors
- IT industries and High-Tech companies
- Science museums and events

- Materials industries
- Medical centres
- Laboratories and research centres
- College and universities
- Federal and provincial governments



# 04 Testimonials

Profile of Professionals





# Manager of technological communication

at Plastiques G+

Myriam Francœur



Master's degree in Stellar Astrophysics, Université de Montréal



"I suggest ways that mines can upgrade their auxiliary ventilation by analyzing their needs and carrying out on-site performance follow-ups."



"What I love about my job is working with satisfied clients."



A challenge is to "improve the practices of the mining industry, which is often recognized as being conservative."



**François  
Therriault-Proulx**

# Co-founder and CEO

at MedScint



Post-doctoral degree in Medical Physics, University of Texas  
Natural Sciences, Cégep de Rimouski



"At MedScint, we bring together experts in optics, electronics, IT and medical physics to develop measuring instruments that are revolutionizing radiation oncology."

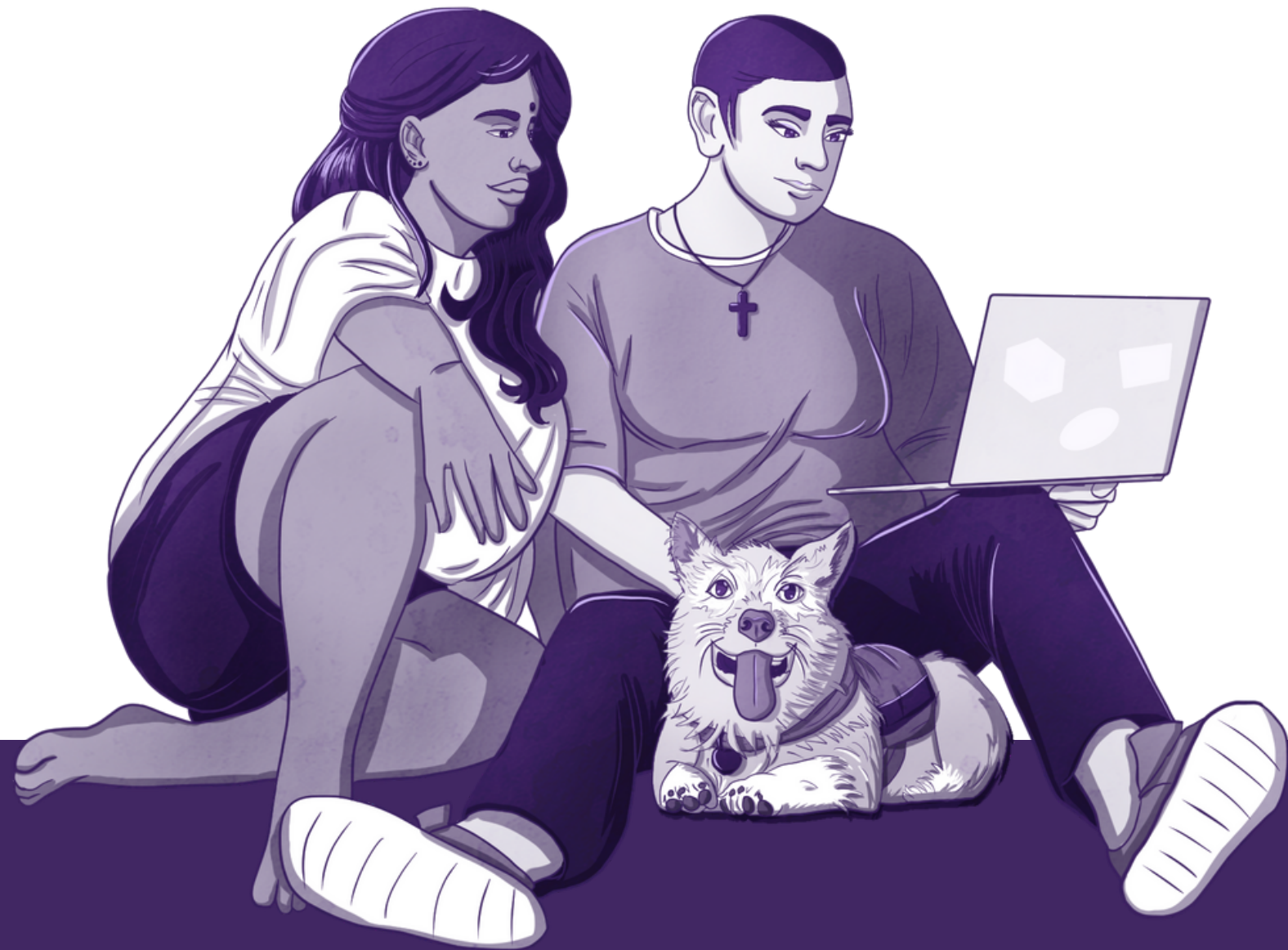


"I love working as part of a team to come up with important, innovative scientific and business solutions."



One challenge in my career is to "prioritize what I do based on the business' stage of development and growth."

# 05 Remuneration



# Annual Salary

\$ 82,000

average per year



# Hourly

\$ 43 / hr  
average



\$ 26 / hr  
minimum



\$ 72 / hr  
maximum

\* Source : Emploi-Québec (2015); Gouvernement du Canada (2020);  
Université Laval (service de placement)

# Our Partners



# Contact us



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