

# Educational toolkit

SOLUTIONS FOR GENERATING INTEREST AND GIVING FEMALE STUDENTS  
THE CONFIDENCE TO CHOOSE A CAREER IN SCIENCE.



Parité  
SCIENCES

## Free toolkit and guide

Solutions for generating interest and giving female students the confidence to choose a career in science.

## A educational tool for college staff in Quebec

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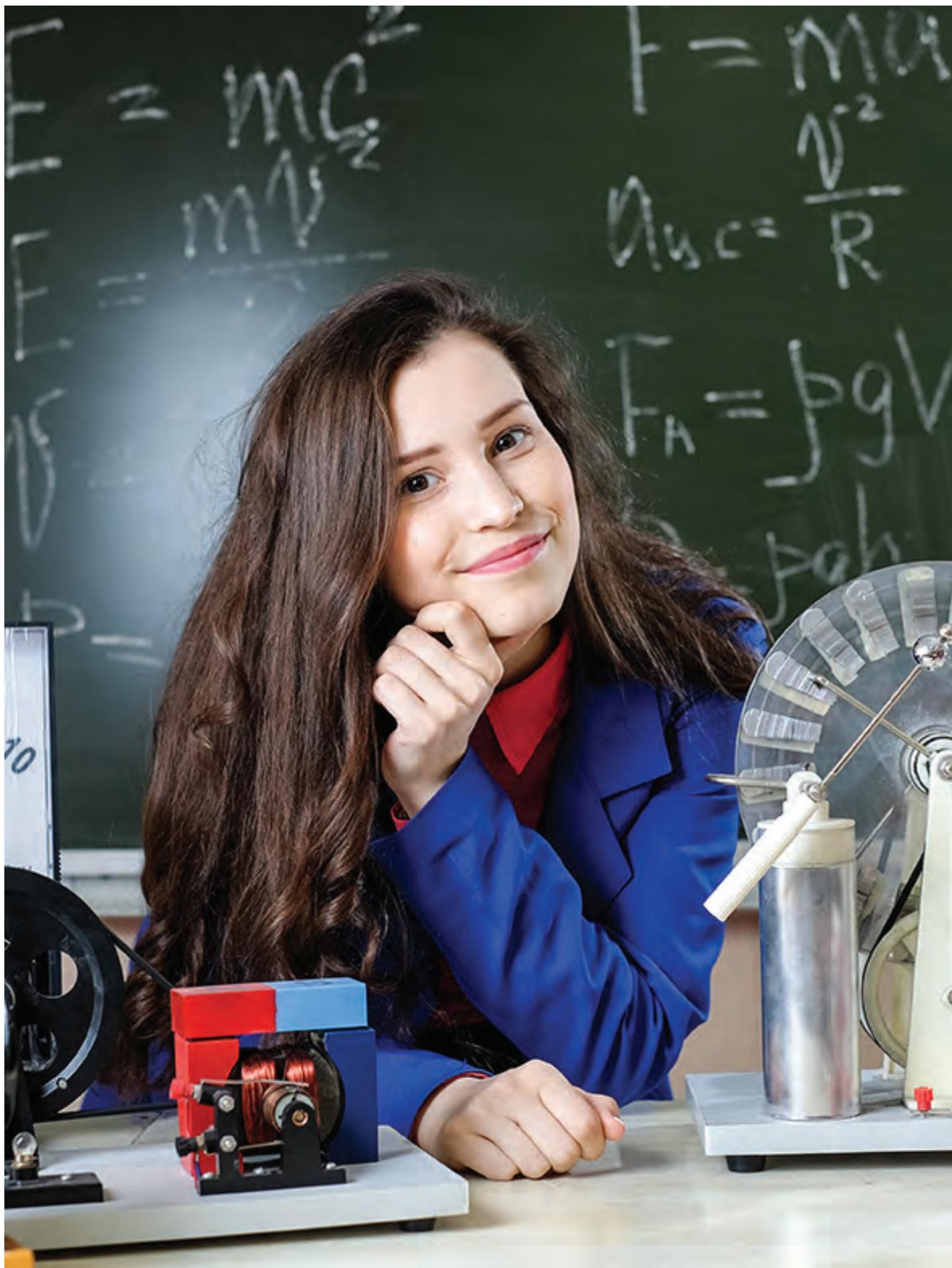


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## What does the future hold for your female students in science?

No matter where you look, our daily lives are regulated by technology. So, Quebec's organizations are actively searching for qualified workers.

The last 50 years have seen women underrepresented in university science programs, which has led to a lack of parity in highly influential fields.

This under-representation perpetuates stereotypes and unconscious biases such as :

- Women are not as interested in science as men.
- Women don't have the same skills.
- Women don't do as well as men.

## Why work together ?

Studies have shown that the teaching staff plays a decisive role in generating and supporting female students' interest in science.

The Parité sciences team supports the teaching community at Quebec's colleges by offering a free workshop as well as strategies and tools to encourage more undergraduate female students to register in computer science, mathematics or physics.

## The goal ?

To broaden the horizons of women studying science.

This toolkit contains concrete tools to discuss the issues and facts with your female and male students simply and openly.

By working together to encourage more women in Quebec to study science, we can make a real difference and have a positive impact on society.

**Thank you for helping to increase the proportion of women in the fascinating world of science !**

- The Parité sciences team

# What's included in this toolkit ?

A free 60 minutes workshop offered by Parité sciences

Ten easy-to-apply teaching strategies to generate interest among female students

A teaching practices self-assessment form

Three in-class presentations on careers in computer science, mathematics and physics

A poster showing the issues of female under-representation in science

## 60 minutes workshop

With the help of a Parité sciences trainer, you'll learn about the facts and issues behind the under-representation of women in scientific fields lacking parity. Included in the solutions are 10 simple strategies that you can immediately incorporate into your teaching.

**Duration : 60 minutes**

**Format : in person or online**



**Would you like to take part in a one-on-one or a group workshop ?**

[Write to us to register](#)

Anyone involved in teaching, advising, assisting, administration or a related field will benefit from this workshop.

**Feel free to pass this information on to your colleagues !**

## 10 realistic, easy-to-apply teaching strategies

Below are ten concrete actions you can take to help increase female students' interest in science and boost their confidence in choosing a career in science. These teaching strategies will prevent them from being marginalized and help recognize their scientific skills.

### Benefits of the 10 strategies

- Boost confidence and a feeling of competence
- Reduce stereotypes and unconscious bias
- Broaden academic and professional horizons

### Duration : 5 minutes of reading

Format : one page to read (online or printable)

[Download your 10 teaching strategies](#)

**Would you like to take a free workshop on how to incorporate these strategies ?**

[Write to us and we'll get back to you !](#)

### Teaching practices self-assessment

Assess your teaching practices by identifying the actions that you've already taken and those that require more attention to increase female students' interest in science and boost their confidence in making an informed career choice, not one based on the stereotypes that society continues to spread.

### Duration : 5 minutes to answer questions

Format : form (online or printable)

[Download your self-assessment](#)

## 10-minute in-class presentation

We prepared three presentations designed to generate, consolidate and increase female students' interest in university programs and careers in science.

Based on your course plan, we invite you to download one, two or all three presentations. Feel free to change or merge slides as needed !



### Content common to all three presentations :

- Skills acquired at university
- Examples of Quebec employers
- Roles and duties at work
- Examples of job titles
- Salaries info
- Two profiles of peoples working in this field

### Duration : 10 minutes

Format : turnkey presentations for in-class or online presentation

### The code that opens the door to stimulating projects and challenges

[Download the Careers in computer science presentation](#)

### The perfect equation for stimulating projects and challenges

[Download the Careers in mathematics presentation](#)

### A world of possibilities for stimulating projects and challenges

[Download the Careers in physics presentation](#)

## Highlights : a convincing portrait

Discover the highlights that reveal the issues associated with the under-representation of women in science in Quebec.

In the blink of an eye, you'll raise awareness in your classes about this situation. The infographic's content is ready to email, print or display.



**Duration : 5 minutes if presented in class. 3 minutes if read alone.**  
Format : infographic of the highlights

[Download the infographic on the under-representation of women in science](#)

# Acting together makes all the difference

You have a role to play in guiding our female students' careers and how they define themselves as scientists !

Using the strategies and tools we've suggested will help boost female representation in science.

Thank you for teaming up with us and your college colleagues in particular to strengthen and increase the role of science in the coming decades !

- The Parité sciences team

