

ENGINEERING GAMES

2020

MISSION HANDBOOK



JANUARY 3rd – 7th 2020
ÉCOLE DE TECHNOLOGIE SUPÉRIEURE

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1. A Word from the Organizing Committee

Dear participants,

It is with great pride that the École de Technologie Supérieure will host the 30th edition of the province's largest engineering competition in January: the Quebec Engineering Games.

The organizing committee of the 2020 Engineering Games is pleased to send you the mission handbook, which aims to give you all the official information related to this 30th edition of the Games, from the competition schedule, meals, transportation to all the other activities on the program for these four busy days.

Without our valued partners, we would not be where we are today. This handbook is also an opportunity for us to thank them for their generosity that allows us to have such an incredible event every year!

If you don't find the answers to your questions in this document, it will be a pleasure for the entire team of volunteers and our committee to answer them and guide you throughout the competition. These games will be an opportunity to surpass yourself and put your knowledge to good use, while maintaining an outstanding team spirit in order to represent the spirit of the Games.

We hope you will have as much fun as we had preparing this event for you!

2. Behaviour and Attitude

The Engineering Games are an opportunity to fraternize, meet new people, build your network of contacts and get out of your comfort zone while having immeasurable fun during these four colourful days.

However, we remind you that this is first and foremost an engineering competition, which requires a certain amount of seriousness on your part. Major partners will be present to ensure the viability of the event, but also to network and recruit among the best students in Quebec. In addition, certain issues related to the public image that emerged a few years ago have jeopardized the Games' sustainability. Indeed, each time an incident related to misbehaviour occurs, the event's funding and logistics become increasingly complex, and certain aspects of the competition must sometimes be neglected.

We therefore ask you to avoid incidents of any kind that could be detrimental to the experience of others. Remember that your actions and attitude in all activities have a direct effect on the success or failure of the event. The organizing committee will not hesitate to expel a participant who does not respect the [discipline policy](#).

If you witness or are a victim of such behaviour, do not hesitate to speak to a member of the Organizing Committee (red shirts) and/or to fill out the [QCESO complaint form](#).

In addition, a special “**sponsors' choice**” prize will be awarded to the sponsors' favourite delegation. All the representatives of the companies on site will be able to vote for their favourite delegation, based on professionalism, positive attitude and genuine interest in the companies.

Help us ensure that this edition runs smoothly by remaining respectful of the people and equipment, and by showing good civism and team spirit. This is an opportunity to work together to promote the exemplary values that have characterized the Quebec Engineering Games for the past 30 years.

3. Theme

Survivor,

As you know, the adverse consequences of human activities are pushing the earth to its limits, meaning that it will soon be impossible to evolve in a safe ecosystem. Thus, last January, the scientists and climatologists of the **Bureau of Engineering and Planning of Competitions Organized as Multidisciplinary, the BEPCOM**, predicted the imminence of a series of environmental disasters, which could wipe out all life on Earth at an alarming rate. Unsurprisingly, our predictions proved accurate, and these unprecedented events began in September 2019. If you are reading this, you have survived.

In this particular context, the BEPCOM required each Quebec university to select, from among the survivors, the 46 most talented engineering students. This selection was based on your ability to solve complex problems related to the re-engineering of a greener, healthier and more sustainable world. It was also about selecting the most innovative, responsible, creative and respectful people. Now that the selection process is officially completed, the BEPCOM congratulates you on this remarkable achievement... however, the hardest part remains to be done.

Indeed, on 3 January, the BEPCOM will officially launch the JDG2020 Mission, and it cannot happen without you. **The objective of this mission is to improve the situation on Earth, preserve knowledge, responsibly exploit the remaining resources and restart activities in a sustainable manner.** It will be through a series of challenges, developed by BIPCOM's thought leaders, that you and 409 other extraordinary students will be tested to challenge all your skills and develop solutions to the 10 most critical issues for BEPCOM.

The BEPCOM once again wishes to congratulate you not only for surviving the natural disasters of recent months, but also for being selected for this vitally important mission, on which rests the future of humanity and of the world as we know it.

This document is intended to give you **all the information you will need to follow, as well as the logistical details of Mission JDG2020. Please read it carefully to ensure its success.**

We are counting on you and we believe in you. It's finally time to **change the world**.



4. Sustainability

We invite participants to pay attention to sustainability throughout the JDG2020 Mission.

The organizing committee of the Engineering Games is committed to sustainability, which is one of our 3 pillars. This is why we have reduced as much as possible the waste and greenhouse gas emissions generated by the event. We reduce waste at the source by using reusable dishes, by not offering any single-use items, by making recycling and compost available throughout the event and by making the trophies and centerpieces for the banquet with recycled materials.

In addition, we are proud to announce that, for the first time in 30 years, this edition of the Engineering Games will be CARBON NEUTRAL. To achieve this, we have reduced the event's greenhouse gas production by minimizing transportation, offering a vegetarian event by default, as well as other small sustainable initiatives that you will see during your stay. In this way, we want to sustainably integrate eco-responsible initiatives into the tradition of the Engineering Games, but to do so, we need your help!

Points will be given if:

- The delegation helps sorting waste at the end of each meal (for example, by working with volunteers to sort waste);
- You avoid unnecessary waste (e.g. by not destroying equipment);
- You avoid the generation of single-use waste (e.g. by using a reusable water bottle);
- You encourage the sustainable efforts of others (for example, by not disposing of any waste or liquid in can collection bags);
- You have any other sustainable initiative;

So, stay tuned for further instructions. You will see that with a few concrete actions, it is possible to reduce the environmental impact of a gathering of more than 450 people. You will therefore be rewarded by your good conscience and allow your delegation to earn a few extra points!

5. Adresses and important instructions

IMPORTANT : You must always wear your NFC bracelet on your wrist for the duration of the Games. Otherwise you will not be able to access activities and meals.

You must also have valid identification (driver's license or health insurance card) in your possession for opening night. Also bring cash, as Café Campus will not accept payment by card.

Finally, we ask you to arrive 5 minutes early for all transports in order to avoid delays. Thank you!

Hôtel Crowne Plaza

6600 Chemin de la Côte-de-Liesse
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Café Campus

57 Rue Prince Arthur E
Montréal (Québec) H2X 1B4

École de Technologie Supérieure

Pavillon Principal
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Montréal (Québec) H3C 1K3

Cinéma Impérial

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6. Schedule

Global Schedule

	Friday January 3rd	Saturday January 4th	Sunday January 5th	Monday January 6th	Tuesday January 7th
AM	Delegates' arrival (Hotel)	Academic Competitions (ÉTS)	Sports day (ÉTS)	Debates Finals (Hôtel)	Delegates' departure
Lunch	Hotel	ÉTS	ÉTS	Hôtel	
PM	Jeux unifiés	La Majeure, Entrepreneurship competition, Trivia, Improvisation and Debates (ÉTS)	Sports day (ÉTS)	Machine Competition (Théâtre impérial)	
Dinner	Café Campus	ÉTS	ÉTS	Hotel	
Evening	Opening Ceremonies (Café Campus)	Networking event with sponsors (Hotel)	Improvisation Finals (Hotel)	Banquet (Hotel)	

Detailed Schedule

From now on and throughout the event, you will be able to consult the detailed schedule via [this link](#). It will be kept up to date in case of any changes.

7. Unified Games

This event is an opportunity for you, the delegates, to get to know each other more. On the first day, directly at the hotel shortly after your arrival, you will take on short, innovative challenges as a team made up of members of each of the delegations.

The teams will be revealed in the early afternoon.

This year's unified games will be in the form of a scavenger hunt with a host of questions, puzzles, challenges and booths to be completed with your team! You will need to enter the answers to the challenges on a web-based platform, so **make sure you have your cell phone charged and with you** at the event! Detailed information will be given to you on site.

Some challenges will have to be done in front of the judges to be validated. This is the time to showcase your creativity, humour and quick-wittedness!

The winning team of these unified games will be revealed at the opening show and will win an incredible ... surprise ;)

8. Competitions

Here are the different academic, cultural and sports competitions in which you will have to perform at the Games. The exact venues and game schedule for each delegation will be announced on the morning of the competition. We invite you to follow the directions of the volunteers on site to get to the right place during the activities.

Academic Competitions

Electrical Engineering – January 4th, 7:30 am

Presented by



Mechanical Engineering – January 4th, 7:30 am

Presented by



Computer Engineering – January 4th, 7:30 am

Presented by



Industrial Engineering – January 4th, 8:30 am

Presented by



Chemical Engineering – January 4th, 8:30 am

Presented by

RioTinto

Civil Engineering – January 4th, 8:30 am

Presented by

sintra
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Consulting – January 4th, 8:30 am

Presented by

VEOLIA

"La Majeure" – January 4th, 12:00 pm

Presented by





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A photograph showing three students sitting at a table, focused on their work. One student in the foreground is smiling broadly while holding a pen over an open book. Another student is visible behind them, also smiling. A third student's face is partially visible on the right side of the frame.

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Cultural competitions

Trivia — January 4th, 1:00 pm

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Improvisation — January 4th, 13 h

Finals are January 5th, 7 :00 pm in room “Internationale BCD” of the Crowne Plaza Hotel.



Debates — January 4th, 1 :00 pm

Finals are January 6th, 8:00 am in room “Internationale BCD” of the Crowne Plaza Hotel.

Presented by



Sports

This year, the sports day (January 5th) is presented by the Association Étudiante de l'École de Technologie Supérieure (AÉETS) !



The following sports start at **8 :00 am** :

- **Outdoors Kickball**
- **Spikeball**
- **Suprise Sport**
- **eSports**

Dance starts at **9 :00 am**.

For more detailed information on the various events, please consult the Competition Handbook available on the [Quebec Engineering Games website](#).



Au service des étudiants depuis 1979

Long-Term Competitions

Entrepreneurship Competition — January 4th, 1 :30 pm

Public pitch on January 6th, 10 :00 am in room “Internationale BCD” of the Crowne Plaza Hotel.

Presented by



To find out all about the Entrepreneurship Competition, please consult the Entrepreneurship Competition Handbook available on our website (Participants' Page).

La Machine— January 6th, 1 :30 pm

Presentation and demonstration at Cinéma Impérial

Live broadcasting on the Jeux de Génie du Québec facebook page

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To find out all about the Engineering Games centrepiece event, please consult the Machine Competition Handbook available on our website (Participants' Page).



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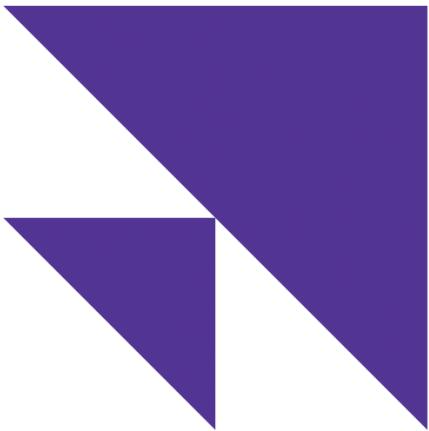
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9. Scoring

As you may know, the ETS trains 25% of all engineers in Quebec, and more than 3,700 internships are completed annually. ÉTS's coop education program encourages students to get to know each other as professionals in the following three areas:

- Know-how: brings together the technical skills of the engineer;
- Knowing how to act: includes the ability to take action for the well-being of the group;
- Knowing how to be: the individual's personal skills.

For many people, the Engineering Games are a way to improve their skills. It is through the scoring grid that we will try to motivate your actions. The evaluation scale for all the Engineering Games is detailed as follows:

		Civil	75
		Mechanical	75
		Electrical	75
		Software	75
		Industrial	75
		Chemical	75
		Consulting	109
		<i>Majeure</i>	109
SAVOIR-FAIRE	Academics	Sport 1	40
		Sport 2	40
		Sport 3	40
		Sport 4	40
		Outdoor Sport	40
	Machine	Machine	403
	Entrepreneurship	Entrepreneurship	303
SAVOIR-AGIR	Cultural	Improvisation	81
		Debates	81
		Trivia	81
		Animation	25
		Delegation's theme	15
SAVOIR-ETRE	Sustainability	Parrains' Acad	5
		Attitude	9
		Commitment to the delegation	15
		Procurement	12
		Involvement during the games	12
	EngGames spirit	Charity event	26
	Professionnalism	Participation	30
		EngGames spirit	30
		Sponsor's honorable mention	6
		Presence	9
		Assiduity	9
		Total	2020

10. Participating Universities



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Trois-Rivières

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Abitibi-TémiscamingueUniversité du Québec en
Outaouais & Université
d'Ottawa

11. Acknowledgements

The organizing committee of the 2020 Quebec Engineering Games sincerely thanks you for having paid attention to this document. We are extremely pleased to count you among us in the adventure of this 30th and memorable edition of the Quebec Engineering Games, which would never have been possible without the help of all these beautiful people. A huge thank you to all of you for your involvement. We look forward to seeing you in Montreal from January 3 to 7!

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Philippe Daneau - Entrepreneurship

Isabelle Hoang – Civil Engineering

Jeff Perreault - Improvisation

Stéphane Jenkins - Consulting

James Fradette - Debates

Louis Félix Baillargeon – Electrical
Engineering

Patrick Tremblay - Sports

Benoit Côté-Jodoin – Computer
Engineering

Randy Yantha – Audiovisual Director

Antoine Leblanc – Mechanical Engineering

Corinne Leveaux - Trivia

Imen Bessioud – Industrial Engineering

Jessica Ing - Industrial Engineering

A very special thank you also goes out to the entire team of volunteers who will be with us at the Games or who have helped on both sides in the preparation of the event, to QCESO, to our precious partners, as well as to Photo Voltaic!