

File number: 326379

Demande 2023

### Registration

THIS IS A DEFAULT ENGLISH VERSION OF THE FORM. Please refer to the program rules and the French version of the form to make sure you provide the right information. To access the French version of the form, get back to the "My forms" tab and change the display language in the upper right corner of the screen.

The form, including all required documents, must be submitted before 15 September 2022 at 16:00.

**Read the program rules** (<u>program web page</u>) and the Common General Rules (<u>CGR</u>) to verify the eligibility requirements and to ensure that the form is filled out correctly. Also, make sure you are completing the form for the **right program**.

Refer to the <u>Presentation standards for PDF attachments to FRQnet forms</u> available in the Documents section of the FRQnet E-Portfolio for complete presentation instructions.

**IMPORTANT**: All co-investigators must have confirmed their participation prior to submitting the application form. As well, prior to submission, the Canadian Common CVs of the principal investigator and co-investigators from Québec must have been submitted and the detailed contribution files must have been attached to their respective electronic portfolios in the Canadian Common CV section. Canadian Common CVs of all co-investigators from Canadian provinces and territories must have been submitted in NSERC format (Form 100A) in the "Other Documents" section of the present form.

It is recommended that you validate the contents of your form well in advance of the deadline to allow you to make any necessary corrections. The « Validate Form » button is located at the bottom of the « Signature and Subi ssic » ection.

In all sections of the form with a « Save » button, it is important to safe the information of the lag before clicking the « Validate Page » button.

### INFORMATION SEULEMENT

NOVA: 2022-2023

### **Principal investigator**

The Principal Investigator is responsible for the scientific direction and execution of the research project, program or infrastructure, as well as the administrative and financial aspects of the grant, including corresponding with the Fonds.

Refer to the program rules for eligible research statuses. For status definitions, see the Status and Roles section of the FRQ Common General Rules.

Nip:

Name:

First Name:

\*Research Status

### **CONTACT INFORMATION**

The information is displayed for consultation purposes only a door as from the My rofile page of the RQnet Electronic Portfolio. If the information is missing or incorrect, please edit it on the My Profile page (for the Address) elect, you not select Print a Affiliation Address).

Adress:

### INFORMATION SELLEMENT

File number: 326379 Name:

NOVA: 2022-2023

### **Managing institution**

The managing institution is the employing institution of the Principal Investigator. Note that the Employing and managing institution drop-down menu contains only Institutions recognized by the FRO to manage funding.

Once the information has been saved, the managing institution will be able to see this form in the Institutions portal.

Managing institutions may set an internal deadline for the approval of applications that is earlier than the competition deadline. This date will be posted on the "My forms" page under "Institutional deadline".

It is essential that this form be submitted before the institutional deadline, or before the competition deadline. The institution must then approve it within the timeframe prescribed in Section 3.2 of the Common General Rules.

For applicants employed by a college centre for technology transfer (CCTT), the associated college must be identified as the employing and managing institution.

**Employing and managing institution** 

Principal university affiliation

Department / Administrative Unit / School /

### Campus / CCTT INFORMATION SEULEMENT

NOVA: 2022-2023

### **Pre-eligibility**

I certify that there are no other sources of funding for this research project.

The proposed research project is in the fields of natural sciences and engineering (NSE) and covers a maximum period of three years.

I certify that I, the applicant (principal investigator; PI), am employed by a Quebec university management institution recognized by the FRQ, meet the definition of status 1(i) university researcher in the CGR and hold a first career position at a university between September 2, 2016 and September 1, 2019.

All Quebec co-investigators involved in this application are employed by an institution recognized by the FRQ.

The team includes at least one co-investigator from a university or college in another Canadian province or territory who is from an eligible institution recognized by NSERC - eligible institution.

The team includes at least one co-investigator employed by a Québec university or college who meets one of the definitions of Status 1, 2 or 3.

File number: 326379

NOVA: 2022-2023

### Title and research fields

### Title

Indicate the title of your funding application.

\*Title

Must be in French

Only if your application is written in English, complete the field hereunder.

### **Title in English**

### Classification

A complete list of permitted values for the different drop-down lists used in the Fonds research classification system is available in the Documents section.

List, in order of priority, the research sector(s) to which your research activities belong.

\*Sector 1.

2.

3.

4.

Indicate the research discipline(s) that best describe the research.

\*Discipline 1.

Discip ne z.

Indicate the main field f research to which you a plication elegate

\*I ield or rese rch

Indicate the research topics that apply to your application.

\*Rese irch topi 1.

Researc topi z.

Indicate the field and sub-field of ppli ation in which your research ctivities

\*Field of application

Sub-field of application

Indicate six keywords, from the most general to the most specific, that best describe your research project or program.

\*Keywords

NOVA: 2022-2023 File number: 326379

### **Ethics**

Indicate if your research Program involves:	
*Check your choice	☐ Participation of human beings.
	The use of human biological material (parts, products, tissue, cells, genetic materials, derived from a living or dead individual).
	Assisted procreation activities or the use of human embryos derived therefrom, within the meaning of the Act respecting clinical and research activities relating to assisted procreation (CQLR c. A-5.01).
	☐ The use of administrative, scientific or descriptive data from human participants.
	☐ Use of experimental animals, or animal parts, products or tissue.
	☐ None of the above.
Consideration of gender and sex  This section will not be available to the evaluation the program, it should be repeated elsewhere in the  *Indicate whether the research involves gender or sex-base and sis (see a ticle 5.5 of the Common on (e) ral Rules for more in 5 cmm on).	on commit as. If the information equested he sit or elevant to the evaluation of the funding application or required by a funding application.  It is, the notion of gooder (sociocultural aspecta) it taken it to account.  Yes the notion of six biological aspecta is taken into account.  No, the usearch does not take into account the notion of gooder of sext.
Describe how the research takes into account the notion of gende or ex. it does not, walain v	
Environmental risk	
	on committees. If the information requested here is relevant to the evaluation of the funding application or required by a funding application.
* Indicate the level of environmental risk associate	ed with the research (consult « Environmental Responsibility » for more information ):
A) Minimal risk : the environmental impact does not exceed the impact of acday-to-day human activity.	B) Greater than minimal risk : the environmental impact exceeds the impact of day-to-day human privity. In the event of funding, you will need to specify the mitigation measures being considered or the measures that must be taken to comply with legal requirements.

NOVA: 2022-2023 File number: 326379

### **Abstract**

Should funding be granted, I agree to allow the FRQ to publicly release the lay abstract and title on this page in whole or in part and by any means (Web site, Facebook, Twitter, etc.).

Accordingly, I am not including personal information or confidential or protected information whose release may compromise a patent filing or publication request.

The FRQ shall comply with all applicable copyright laws, in particular by referring to the author. The FRQ reserve the right to edit the text without notice before releasing it.

O Yes O No

### Abstract for a general audience

Provide an abstract in language that can be understood by the public.

\*Abstract in French

### POUR

Only if your application is written in English, complete the field hereunder.

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NOVA: 2022-2023

### **Co-Investigators**

### Co-applicants list

Add co-investigators whose research statuses are eligible under the program rules. Status descriptions are provided in the <u>FRQ Common General Rules</u>. Co-investigators' CVs are considered in the application evaluation. Individuals identified as co-investigators in this form will receive an email procedure for confirming their participation in the application and submitting their CV.

The employing institution indicated must be the one that pays the co-investigator's salary.

For individuals employed by a centre College Centre for Technology Transfer (CCTT), the college of affiliation must be identified as the employing institution.

### CO-INVESTIGATORS - Research statuses 1, 2 and 3 of the Common General Rules

**It is the principal investigator's responsibility** to ensure that all Status 1, 2 and 3 co-investigators have 1) confirmed their participation via the *As a co-investigator* section of their E-portfolio; 2) submitted their updated Canadian Common CV to the Fonds; and 3) attached their updated Detailed Contributions file in their FRQnet portfolio, section *Common Canadian CV*. This must be done before the institution deadline date and time, or the competition deadline date and time, to allow for submission of the application form. Go to the "My forms" page and click on the link in the "Other statuses" column to verify.

(The list is empty)

File number: 326379

NOVA: 2022-2023

### Co-investigators from outside Québec

### Co-applicants list

A co-investigator from outside Quebec is a person who is actively participating in the conduct of a research program. Please refer to the program rules for the conditions required to act as a co-investigator outside Quebec.

A co-investigator from a university or college in another Canadian province or territory AND must be from an NSERC-eligible institution.

Note: If an institution is not listed, request an inclusion by writing to: etablissement@frq.gouv.qc.ca
Clearly indicate 1) the name, country and province of the institution requested, 2) the name of the program and 3) the title of the section of the form where it is requested.

(The list is empty)

NOVA: 2022-2023

### **Collaborators**

List key collaborators.

A collaborator is an individual who brings specific expertise to the project or research program, as appropriate. He or she does not provide a CV and cannot be delegated to manage a portion of the funds.

For the definition of the possible Roles in the application, refer to the FRQ Common General Rules.

If the institution is not listed, consult the help bubble to request an addition. If the collaborator is not attached to any institution, select No affiliation or home institution.

### **Collaborators list**

(The list is empty)

NOVA: 2022-2023 File number: 326379

### **Project or program description**

### DESCRIPTION OF THE RESEARCH PROJECT

The document must be no more than 2 Mb, contain a maximum of 12 pages, be clearly readable and be attached in PDF format.

File name	Type of document	Date	Taille (Ko)

NOVA: 2022-2023

### Interruption or slowing down of research

This section allows you to identify, if applicable, circumstances related to the COVID-19 pandemic that may have slowed or delayed your research activities (family obligations, illness, disability, bereavement, laboratory closure, increased time spent teaching or serving the community, etc.).

The description should include the reasons and start and end dates of the interruptions or slowdown periods and their impact on this application, if any (e.g., on publications, grant applications, mentoring of incoming students, participation in scientific events, etc.).

Note: Interruptions or slowdown periods that are not related to the COVID-19 pandemic should be described in the Detailed Contributions file.

In order to properly complete the field relating to the impacts of COVID, if applicable, consult the document « Considering the impacts of the COVID-19 pandemic in the evaluation ».

Circumstances specifically related to the COVID-19 pandemic

NOVA: 2022-2023 File number: 326379

### **Teaching release - Colleges**

Indicate, for each team member meeting the status of "college researcher," the estimated amount of teaching release time requested, if any.

(The list is empty)

### Identify:

- The name of the person(s) receiving the teaching release and his/her college of affiliation;
- The role played by this person in the proposed research;
- Justification for the use of funds allocated specifically to his/her involvement.

The document must be one page and no more than 2 Mb, be clearly readable and be attached in PDF format.

### Fichier joint

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POR TAI

NOVA: 2022-2023

### **Budget**

### Equipment grant (\$7,001\$ to \$50,000) which must be used during the 1st year of funding.

- For each equipment, the unit cost must be superior to \$7,000 including taxes;
- The total amount requested to the FRQNT should not exceed \$50,000 including taxes;
- If the cost of a single piece of equipment exceeds \$25,000 taxes included, you must attach 2 quotes from suppliers\* to the section "Other documents".
- \*A single quote can be attached if the reason is clearly explained in the document.

Requested funding to the FRQNT (\$)

Real cost of the requested equipment (\$)

Indicate the amount of the total funding requested to the NSERC (max \$135,000).

Requested funding to the NSERC

### **Operating Grant**

For each category of eligible expenses, indicate the amount expected C'ck on the line below for a row view of all eligible expenses.

The total amount requested annually for operating expenses n \$1,000 or less including taxes, which must be reported in the equipment (pure ase, ase, operating expenses n \$1,000 or less including taxes, which must be reported in the equipment (pure ase, ase, operating expenses n \$1,000 or less including taxes, which must be reported in the equipment (pure ase, ase, operating expenses n \$1,000 or less including taxes, which must be reported in the expense of the expens

Overview of eligible expenses

(The list is empty)

### SELEMENT SELECTION

Attach here a PDF file containing a justification of the proposed expenditures and equipment costs requested for the FRQNT (3 pages) and a justification of the proposed expenditures inluding the budget table for NSERC (3 pages).

File name Type of document Date Taille (Ko)

File number: 326379

NOVA: 2022-2023

### **Suggestions of experts**

Suggest 8 experts from Québec or outside Québec with recognized expertise in the research area of the application. The experts must have no current or recent (five years or less) collaborative relationship with the principal investigator or co-investigators. Please refer to the General Common Rules - Conflict of Interest Management.

The experts must have sufficient knowledge of the language in which the application is written.

The Fonds will decide whether or not to contact the suggested expert(s). They will not be notified of your suggestions.

List of experts

(The list is empty)

NOVA: 2022-2023

### Other documents

Attach the supporting documents to your funding request. They will be added at the end of the form. **Only one file per type of document is allowed.** Make sure to use all the possible options to optimize the size of your documents (black / white, image size, Acrobat optimization options, etc.) furthermore, ensure that PDF documents are not protected and that they do not contain bookmarks.

Consult the <u>Presentation standards for files (PDF) attached to FRQnet forms</u> available in the **Documents** section of the FRQnet electronic portfolio to read all presentation instructions.

Consult the program rules to find out which documents are required according to your situation and what specific information to provide in each document. Any document not required will be withdrawn from the funding request for its evaluation by the scientific committee.

File name Type of document Date Taille (Ko)

NOVA: 2022-2023

### Signature and submission

### COMMITMENTS OF THE APPLICANT

I declare and warrant the following:

- 1. All the **information** contained in the application and all the information I shall subsequently provide related to this form or any funding obtained (documents or further details required by the Fonds, reports, etc.) is and shall be **accurate and complete**. I shall notify without delay the FRQ of any changes to the information I have entered.
- 2. The Co-Investigators named in my application as taking part in the research project or program and other project collaborators, if applicable, have confirmed their desire to participate in the research project or program and I have obtained their authorization to provide their personal and confidential information.
- 3. I have read and agree to comply with the obligations set out in the *Common General Rules* of the Fonds de recherche du Québec (Fonds de recherche du Québec Nature et technologies, Fonds de recherche du Québec Santé, Fonds de recherche du Québec Société et culture, hereinafter the "FRQ") and the FRQ's *open access policy* for the dissemination of research, as they are updated periodically (see the « DOCUMENTS » tab), and to comply with all terms and conditions set out in the *Programrules* to which I am applying, as well as all other terms set out in the award or grant letter and at the time the payments are made.
- 4. I have read and agree to comply with the standards of ethics and integrity of the FRQ, including those set out in the *Politique d'éthique et d'intégrité* (see the « DOCUMENTS » tab), as updated periodically, taking into account any adaptations applicable in Québec and the ensuing obligations, and to subscribe to the best practices in my area of research.
- 5. I have read and agree to comply with the provisions of the roucy jet the Revolution Research of the FRQ (see the « DOCUMENTS » tab), as updated periodically, as well as those set out in institutional policies if the regard to the especiable onder to research, as they apply to my research activities. In the event of a breach of responsible conduct of research allegation, I accept that the FRQ may exchange personal and confidential information concerning myself with the managing institution and the following organisations, if applicable, in Canada or abroad: their financial partners for the program to which the allegation relates; any institution concerned by the allegation and any public research funding agency concerned by the allegation may include: the allegation, the supporting documents, the review eport of
- 6. I am not currently eligible to excert funding from a Car dia or in ern iona public tuneng agency as the result of a substantia d breach of responsible conduct of research.
- 7. I shall immediately advise the Fonds to which I am submitting this application should I become ineligible to apply for funding or receive funding from a Canadian or international public funding agency as a percentage of the control of the cont
- 8. I understand that **failure to comply** ith ny of hes compliments mey be did not be with the wall failure to comply ith ny of hes compliments mey be did not be with the wall failure to comply ith ny of hes compliments may be did not be with the wall failure to comply ith ny of hes compliments may be did not be used to the privileges granted by the FRQ.

### AUTHORIZATION REGARDING PERSONAL AND CONFIDENTIAL INFORMATION SUBMITTED AS PART OF THE APPLICATION PROCESS

The information entered on the funding application forms, and all other forms relating to the management of any funding, shall be treated confidentially and in accordance with the Act respecting Access to Documents Held by Public Bodies and Protection of Personal Information (CQLR c A-2.1, hereinafter the Act), as well as with the *Statement regarding the protection of personal and confidential information* (see the « DOCUMENTS » tab, hereinafter the "Statement").

• I have read the *Statement* and authorize the Fonds to keep, use and release all the personal and scientific information contained in my personal file, in accordance with the terms set out in the *Statement* and the Act, and on the condition that the individuals authorized to access my personal information undertake to treat it confidentially.

NOVA: 2022-2023

Identification
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You must agree with the commitments and authorization.

Yes