Guide for Applicants

Year 2023
FOREWORD

THE FUND FOR SCIENTIFIC RESEARCH – FNRS

The mission of the FNRS aims at promoting free (fundamental) scientific research within the French-speaking Community of Belgium (CFB) through its grant allocation process for researchers and institutions (mostly CFB universities).

In order to fulfil such a mission, the FNRS has set up funding instruments, which are subject to calls for proposals occurring at different times of the year. The granting depends on a peer review of the quality of the proposal and is based on scientific excellence.

THE CALLS FOR PROPOSALS OF THE FNRS AND THE MATERIAL

The material related to the calls for proposals includes:

• the regulations, which include the conditions for the calls and the functioning modalities in case of granting;
• the guide for applicants, which describes the general principles of the calls and the functioning of each instrument;
• the guide for reviewers, which specifies the rules that shall apply for the evaluation of the proposals and the characteristics of each instrument to experts who take part in the two ex-ante evaluation steps;
• the evaluation guide, which presents the rules for the evaluation, selection and granting procedures.

The regulations adopted by the Board of Trustees of the FNRS constitute the reference framework for the calls. Thus, they are the only documents that bind the FNRS. All the calls for proposals are announced on the FNRS website, where the related documents can also be found.

OBJECT OF THE GUIDE FOR APPLICANTS

The guide for applicants provides the general goals of the calls for proposals and gives the information required from applicants for each instrument and the way each section of the proposal will be used within the evaluation procedure.

The guide for applicants is divided into 3 main parts:

• The first part specifies the general conditions applicable to any instrument.
• The second part presents each instrument with its specific conditions.
• The third part includes the appendices and contains the reference material.

In order to understand the FNRS evaluation procedure in detail, starting from the experts’ selection process to the decision of granting, applicants can consult the evaluation guide, which is also available on the website.


1 In order for the document to be easier to read, the Fund for Scientific Research - FNRS (F.R.S.-FNRS) is afterwards shortened to FNRS.

2 In order for the document to be easier to read, the French-speaking Community of Belgium is afterwards shortened to CFB.
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1.1 THE FNRS & ITS FINANCIAL ALLOCATIONS

1.1.1 THE FNRS INSTRUMENTS AND THE BOTTOM-UP APPROACH

The FNRS funding instruments are divided into 4 types:

• the “researcher” instruments that fund researchers at four different levels of expertise;
• the “project” instruments that fund individual or collaborative research based on the researchers’ initiative;
• the “capacity” instruments that focus particularly on research infrastructures;
• the “life of research” instruments, intended for scientific dissemination and for researchers’ punctual needs such as mobility, congresses, etc.

These instruments are developed according to a bottom-up approach: researchers are free to suggest the research theme to develop, within the research institution that agrees to host them. This type of research is funded by the FNRS, and specifically by the FRFC in the case of a collaborative research for instance.

In some cases, however, such free choice and decision can be made with regard to a great theme – the so-called “strategic research”— considered as being important for the society, and for which the FNRS receives a budget.

This complementary approach was introduced in the early history of the FNRS, upon request of the State, thus giving birth to strategic funds associated to the FNRS and dedicated to the funding of collaborative projects in nuclear (IISN) or medical (FRSM) sciences and to the funding of Ph.D. students in industrial or agricultural sciences (FRIA), for instance.

1.1.2 CALLS FOR PROPOSALS

The three major FNRS calls occurring over the year include 3 major types of instruments:

• the “Grants and Fellowships” call (open in December): instruments that fund researchers at four different levels of expertise;
• the “Credits and Projects” call (open in spring): instruments that fund individual or collaborative research based on the researchers’ initiative;
• The “Large Equipments” call: instruments that focus on research infrastructures and the like.

The FNRS assesses the proposals in order to identify those whose quality is high enough to benefit from a possible financial allotment.

1.1.3 PERSONAL DATA PROCESSING

Any information that the applicant provides is likely to be stored in one or several files. The FNRS is the controller responsible for data processing.

The data will solely be used to manage and optimise the relation between the FNRS and the applicant, and to fulfil the resulting legal obligations. The FNRS can also use those data (encrypted in this case) for statistical analyses, with the aim of improving its funding instruments.
After identifying her/himself, anyone who provided the FNRS with such data can request to see their personal data as recorded by the FNRS. If the data are false, incomplete or not (no longer) relevant, one may require her/his data to be corrected or deleted. Anyone who wishes to exercise this right shall send a written request by mail or email (privacy@frs-fnrs.be).

Anyone who seeks complementary information about the way the FNRS processes data may read the Privacy Policy of the Fund or contact its data protection officer at privacy@frs-fnrs.be.

1.2 SUBMISSION OF A PROPOSAL

The elements (submission tools, material, news related to a call, etc.) necessary in order to submit a proposal in response to a call can be found on https://www.frs-fnrs.be/fr/reglements-guides.

Applications can be submitted either in French or in English and online only on E-SPACE, the management platform dedicated to calls for proposals.

Moreover, applicants may withdraw their proposal at any time. No amendment or correction to the proposal will be accepted after the validation deadlines set for the applicant.

In case of publication accepted after the validation deadline set for the applicant, applicants applying under Grants and Fellowships Call may add them to their application file until 1st of May on a dedicated page at https://e-space.frs-fnrs.be, as a follow-up of their application file.

Postdoctoral applicants (CR, CQ, SPD or MISU) who would be awarded a “Seal of Excellence Certificate” after the validation deadline set for the postdoctoral applicant may add this piece of information until 1st of May on a dedicated page at https://e-space.frs-fnrs.be, as a follow-up of their application file.

1.2.1 ONLINE SUBMISSION: E-SPACE, THE WEB-BASED APPLICATION

In order to use remote reviewers (particularly outside Belgium), the FNRS chose to encourage submissions using E-SPACE, the web-based application, available for each person involved in a proposal: applicant(s), validating person(s), referees, reviewers and the FNRS administrative staff.

Data collection into a dedicated database also enables the achievement of global statistical analyses on closed calls, and consequently, the assessment of funding instruments in order to improve them and meet the needs of the society in terms of accountability (annual statistics, parliamentary questions, etc.).
1.3 THE CONTENT OF A PROPOSAL

Applicants will have the choice of writing their proposal either in French or in English. For some fields, using English can broaden the number of experts likely to take part in the evaluations.

It is recommended to applicants who wish to have their application file assessed by Scientific Commissions dedicated to SEN (Exact and Natural Sciences) and SVS (Health and Life Sciences) fields, as well as the Scientific Commission SHS-2, to submit their application in English. Should the application file be submitted in French, the FNRS may require the applicant to provide a translation in English for the purpose of conducting the ex-ante evaluation.

The FNRS insists on strict compliance with the instructions given for each part of the proposal (scientific section relevant to the instrument selected, number of pages allowed for documents to be enclosed with the application form…) and stresses again the sovereign consideration of the Scientific Commissions assessing the application file.

1.3.1 GENERAL STRUCTURE

Whatever the instrument, the proposal always consists of three major sections:

- the administrative section, which enables to verify the eligibility and to collect data about the applicant(s);
- the scientific section, which embodies the proposal itself and whose content depends on the instrument;
- any administrative appendices, necessary for the file processing but not for the evaluation.

The details about the content to provide in the administrative section and appendices are to be found on E-SPACE.

Unless there is a noteworthy element in the administrative parts, the present guide will only describe the content of the scientific section for each instrument.

The scientific section includes the title, the summary, the descriptors of the research area (descriptor fields and unrestricted keywords), the description of the project (variable content depending on the instrument), and any possible appendices.

1.3.2 ETHICAL ASPECTS

Many projects require prior consideration of ethical problems that might arise or that are inherent to the submitted research project. The ethical aspects of a proposal must be described in the scientific section by the applicant in the application form. The way the ethical problems related to the project are handled will be considered in the frame of the scientific evaluation of the proposal.

The possible ethical problems related to research may relate to the use and storage of private data, the handling of substances that may cause environmental or biodiversity damage and the research on animals or human beings, for instance (non-exhaustive list).

As from 2018, in order to reduce the Ethics Committees workload and to make the administrative procedures more flexible for applicants, the researchers concerned by ethical questions will be required to submit their questionnaire as well as the opinion of the Ethics Committee to the FNRS only in case the submitted grant is awarded. Effective granting will be subject to a favourable opinion of the Committee.
In all cases and regardless of their scientific field, researchers are expected to observe the Ethics Code for Scientific Research in Belgium, which is supported by the Science Policy PPS, which is a joint initiative of the Académie Royale des Sciences, des Lettres et des Beaux Arts de Belgique, the Académie Royale de Médecine de Belgique, the Koninklijke Vlaamse Academie van België voor Wetenschappen en Kunsten and the Koninklijke Academie voor Geneeskunde van België. The Code was published in autumn 2009.

1.3.3 LIST OF PUBLICATIONS

The list of publications and possible patents represents the scientific work of the applicant(s), and thus is an important part of the entire proposal, which will be taken into account during the evaluation procedure.

Unless explicitly mentioned in the specific conditions of a given instrument, only published or accepted publications will be considered.

The list of publications is structured as follows and in reverse chronological order:

1. published works, as an author, a co-author or a publisher (every co-author takes part in the whole work);
2. book chapters or participation to a collective book, as an author or a co-author of the section;
3. articles published in peer-review journals or equivalent category (to be justified) in the relevant field;
4. articles published in conference proceedings;
5. oral presentations during conferences, which include a review committee. Posters are allowed for a doctoral fellowship (Research Fellow, Special Doctoral Grant, Medical Doctor Applicant to a MSc and a Ph.D., Clinical Master Specialist Applicant to a Ph.D., and Veterinary MD. Ph.D. Student) or for a Postdoctoral Researcher fellowship;
6. patents.

For each category, the bibliographical information will appear according to the CFB’s institutional repositories order. If the list is created manually, it must keep the following order:

• works: author(s), title of the work, edition, city, year, ISBN number, number of pages;
• book chapters: author(s), title of the chapter, title of the work, publisher(s), edition, city, year, ISBN number, pages;
• articles: author(s), title of the article, title of the journal or proceedings, year, volume, number (if applicable), pages;
• oral presentations and posters: author(s), title of the paper, conference, year, city, country;
• patents: inventor(s), title of the invention, publication number, year when the patent was registered, term of the patent, countries covered.

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3 Applicants holding the academic degree of Doctor, who have been working for 2 years at least in institutions of the French-speaking community of Belgium that have set up an institutional repository (IR), must absolutely submit their publications list in a PDF format, directly created from this repository, and choose the appropriate F.R.S.-FNRS format. In case of publication accepted after the validation deadline set for the applicant, applicants applying under Grants and Fellowships Call may add them to their application file by 1st May on a dedicated page at https://e-space.frs-fnrs.be, as a follow-up of their application file.

4 The submitted publications shall not be included in the publications list.
In an article or book chapter, the pages are indicated in the form of “starting page – ending page”. If the journal does not use volumes or publication numbers, this information shall be replaced by the publication date.

Whatever the proposal, there is no need for the publications lists to be exhaustive. The applicants are free to choose the publications they believe they could serve their proposal at best (within the framework described above).

Any relevant element which is not included in those lists may be mentioned in the comment area provided for such purpose.

Applicants shall provide their bibliometric data (total number of publications, total number of citations, H-index and the average number of citations) as well as the source of these bibliometric indicators. The Scientific Commissions will not base their opinion solely on those pieces of information, but will use them among other elements. Applicants shall also indicate in their proposal if such information is irrelevant or does not exist in certain scientific fields.
1.3.4 SUMMARY SHEET OF THE PROPOSAL

Any proposal contains a summary that includes the identifiers of the proposal as well as a short description of the scientific project. Unlike other personal or administrative information and description of the project, the elements included in the summary sheet are not confidential.

The basic administrative identifiers of the proposal are the following:

• the unique number of the proposal, attributed either by E-SPACE or the administrative staff of the FNRS;
• the name(s) of the applicant(s) and of the possible promoter (“researcher” instruments).

The scientific proposal is summarised in 3 elements:

• the title in French and in English, (max. 200 characters each, including spaces);
• the summary in French and in English, (max. 2,000 characters each, including spaces);
• the descriptors linked to the proposal (see Appendix).

Aims of the summary sheet and the descriptors:
The summary sheet of the proposal is used within three contexts:

• evaluation: on the basis of this sheet, a step 1-expert may assess whether s/he is in a position to evaluate the proposal;
• statistics: the data are recorded in a database, for instrument and programme analysis purposes;
• accountability: funded proposals are released and made public through the FNRS website.

The title and summary of the research project must be not only understandable to non-experts, but also precise and explicit enough so that step 1 possible reviewers who receive a summary sheet from the FNRS are able to assess whether they are competent to evaluate the project.

As for the descriptors linked to the proposal, they play two roles. The first one is occasional and the other one has a long-term purpose:

• within the framework of the evaluation, they allow a first aggregation of proposals. Each aggregate is related to a group of experts, among which an initial selection of possible experts will be made for the evaluation of a proposal linked to the very same aggregate.
• on the long term, these descriptor aggregates and the descriptors themselves enable the FNRS to carry out statistical research on sets of calls and to monitor developments in terms of needs or research themes within the CFB, so as to better anticipate researchers’ needs and to offer adjustments for funding mechanisms, if necessary.

These descriptors, which are the backbone of the FNRS scientific information system, will also be used to structure the information about the proposals funded by the FNRS, when the access will be posted on the website in the form of a searchable database, instead of annually updated lists. They will also be used within the framework of reports to the Government on research expenses in given fields.
Descriptors related to the proposal and selected by the applicant:
It is mandatory to choose 2 descriptors (at least 1 descriptor field must be relevant to the Scientific Commission selected by the applicant) when submitting the proposal on E-SPACE (cf. Chapter 1.4).

The suggested descriptors which are used to define a proposal (see Appendix 2) are the panels and descriptor fields used by the ERC’s (European Research Council), and to which some particular FNRS keywords have been added in order to describe the specificities of research in human and social sciences carried out within the CFB more precisely.

The choice of experts in step 1 is based on the entire project and not solely on the descriptors. However, the selected descriptors enable applicants to highlight the aspects of their project they wish will be particularly taken into account. These aspects can further be completed with unrestricted keywords.

The descriptors used by the FNRS seek to describe the fields of the investigated knowledge and not the activities of the academic departments, which fall within the competence of the universities and their establishment strategy.

When selecting descriptors, particularly for ERC descriptor fields, applicants must select those which best define the research project, regardless of the academic structure to which they are attached (institution, name of the research center or the department, etc.). Therefore, a researcher attached to a given research department has indeed – depending on the content of the project, her/his possible collaborations outside the department and her/his strategy – a large choice of “research” descriptors, which best define the project and the reviewers wished in step 1.

For instance, a researcher from a mathematics department, who submits a project on a modelling applied to the economy, may choose SH1_3 or PE1_17 and SH1_7, or even only descriptors in human and social sciences, depending on the type of experts they consider as relevant for the project.
1.4 EX-ANTE EVALUATION PROCESS

Common principles to the functioning of the FNRS calls for proposals evaluation are the following:

• for each new funding, the proposals undergo a two-step evaluation procedure (except for some instruments5);
• the extensive resort to reviewers who do not belong to the CFB;
• evaluation criteria known to the applicants during the preparation step of their proposal;
• a final evaluation report sent to the applicants and to their possible promoter, containing the notification of the FNRS Board of Trustees’ decision;
• the publication of the names of the members of the Scientific Commissions.

The detailed description of the whole FNRS evaluation procedure is the subject of the guide of the evaluation procedures, which is a specific document that can be consulted by any applicant. Therefore, this chapter includes exclusively elements that are essential to the applicants when preparing their proposal.

The preparation of the proposal by the applicant:
The applicant makes a certain number of choices that do have an impact on the evaluation procedure of the project:

• by choosing the language of the proposal (French or English), the applicant targets the choice of individual reviewers towards those who can read this language;
• through the descriptors and the summary of the project, the applicant guides the FNRS in the selection of individual reviewers;
• if necessary, the applicant indicates up to 3 experts they do not wish to have as reviewers and provide a justification;
• the applicant chooses the Scientific Commission that will be in charge of finalising the evaluation of the proposal.

Scientific Commission and descriptor fields selected by the applicant:
First, applicants choose the Scientific Commission they would like the proposal to be evaluated by. It is recommended to applicants who wish to have their application file assessed by Scientific Commissions dedicated to SEN (Exact and Natural Sciences) and SVS (Health and Life Sciences) fields, as well as the Scientific Commission SHS-2, to submit their application in English6.

5 For instruments whose purpose is the training of young researchers who seek to obtain a doctoral thesis, the use of individual reviewers (step 1) does not apply. Indeed, for these instruments, the proposal is assigned to two “rapporteurs”, both members of the Scientific Commission chosen by the applicant.

Moreover, for instruments which are not related to calls for proposals or in case of a request for the renewal of a proposal that has already been reviewed in a previous meeting, the Board of Trustees of the FNRS bases the funding decision on opinions, which recommend or not the continuation of the funding for a new period. Depending on the instruments, the said opinions can come from academic authorities, a dedicated Commission, etc.

6 Should the application file be submitted in French, the FNRS may require the applicant to provide a translation in English for the purpose of conducting the ex-ante evaluation.
Then, applicants select 2 to 6 descriptor fields in order of importance (at least 2 descriptor fields must be relevant to the Scientific Commission of their choice) and, they may complete their choice by adding unrestricted keywords (if necessary).

For the choice of a Scientific Commission, applicants should consider the various Scientific Commissions as a whole and to make a choice, taking into account all the fields covered by the desired Scientific Commission.

Receiving the proposals by the FNRS:
The administrative staff of the FNRS ensures compliance with the closing date and hour indicated in the call and verifies the eligibility of the proposal for the selected instrument.

To be evaluated, the proposals must meet the eligibility criteria. If it clearly appears before, during, or after the evaluation step that a proposal does not meet one or several of those criteria, the FNRS will consider it as ineligible and will retrieve it from the evaluation process. The FNRS will then notify the applicants.

1.5 FUNDING DECISION AND FINALISATION

The funding decision (granting or rejection) is within the competence of the Board of Trustees of the FNRS.

Funding decision:
At the end of the evaluation, the decision on the funding will be taken by the Board of Trustees of the FNRS, depending on the available budget, and on the basis of the final grading and final consolidated reports elaborated by each Scientific Commission. The Board of Trustees decides on the granting or rejection, as well as on the granted amounts, if necessary.

Communication to the applicants:
The administrative staff of the FNRS informs the applicant(s) about the funding decision for their proposal. Within 15 days following the Board of Trustees meeting (the month is specified in the mini-guide of the concerned call), the administration transfers to the applicant(s), and to the promoter(s) if applicable:
- the final evaluation report, and
- the evaluation reports by the first-step individual experts on an anonymous basis.

If applicants select only one descriptor field relevant to the Scientific Commission selected, they shall justify the selection of the Scientific Commission in the application form.

Applicants who select the Scientific Commission FORESIGHT, dedicated to research projects relating to sustainability through interdisciplinarity, must demonstrate the “sustainability” aspect of their research project, including interdisciplinary aspects (max. 2,000 characters, including spaces).
2. THE “GRANTS AND FELLOWSHIPS” CALL

Object of the call and the instruments:
The “researcher” instruments are part of the European Charter for Researchers and the Code of Conduct for the Recruitment of Researchers. They enable the researchers to be funded through fellowships, in the form of grants (doctoral researchers), fixed-term fellowships (postdoctoral researchers) or open-ended fellowships (experienced researchers).

There is a possibility to renew or extend some of these fellowships. Given that the applicants have already received a positive evaluation for the allotment of a first fellowship, the procedures for the second evaluation are lighter and are mainly related to the extension opportunity.

The guide presents the access conditions to benefit from a financial allotment. In addition to the details on some of these conditions (the reference decree, for instance), the rules and regulations provide information on the nature, the allocation and the duration of the fellowship; the rights and obligations of the holders of a fellowship; the financial and social provisions.

2.1 THE RESEARCHERS INSTRUMENTS: COMMON CONDITIONS

Whatever the funding instrument and the available tool for the applicant, there are elements which are common to the “researcher” instruments, especially when considering the three main instruments: the Research Fellow fellowship (doctoral level), the Postdoctoral Researcher fellowship (postdoctoral level) and the Research Associate fellowship (experienced researcher level).

2.1.1 ELIGIBILITY CRITERIA (MAIN INSTRUMENTS)

For the three main fellowships (Research Fellow, Postdoctoral Researcher, and Research Associate), the eligibility criteria are based on the number of years following the graduation and giving access to the instrument (date of reference8):

- for Research Fellow applicants: see key dates of the call under section 2.2.1.,
- for Postdoctoral Researcher or Research Associate applicants: see key dates of the call under section 2.3.1.

Year extension possibility: an additional year per childbirth or adoption.

2.1.2 CONDITIONS CONCERNING THE APPLICANT

Application restrictive rules:
An applicant may not apply more than 3 times for the same fellowship, and may only submit a single application per instrument and per call. It is however possible to apply for different fellowships through different instruments.

2.1.3 VALIDATION OF THE PROPOSAL

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8 The date of reference is the validation deadline set for the academic authorities (rectors).
Applicants shall not submit a proposal alone. In order to apply, applicants must have the authorisation of the institution where they wish to carry out the research programme is required and, in most cases, the support of a promoter is required.

**Promoter:**
Except for applicants to a Senior Research Associate, a Research Director fellowship or an establishment in the CFB (Ulysse Incentive Grant for Mobility in Scientific Research), applicants carry on their research work under the supervision of a promoter in a university of the CFB.

The promoter must meet the following conditions altogether:

- Be permanently appointed\(^9\) to an academic or scientific position or on probation in that university.
- This appointment must have a final and conclusive assent from the competent body to legitimize this appointment in accordance with the Law or the university regulations by the time of the validation deadline set for the academic authorities (rectors) at the latest.
- This academic or scientific position must be effective by the time of the starting date of the fellowship, i.e., by 1\(^{st}\) October of the year of the Grants and Fellowships Call concerned at the latest.

If the promoter of a fellowship applicant who is appointed permanently accesses the legal age of retirement / becomes professor emeritus after the validation deadline set for the academic authorities (rectors) and before the end of the funding scheme in case of granting, the submission of the application shall be subject to prior approval by the Head of institution where the research will be carried out\(^10\).

The promoter permanently appointed who will access the legal age of retirement / become professor emeritus by the validation deadline set for the academic authorities (rectors) is not eligible.

The researcher-promoter of a Ulysse Incentive Grant for Mobility in Scientific Research (MISU) who genuinely carries out the fellowship by the time of the starting date of the fellowship, i.e., by 1\(^{st}\) October of the year of the Grants and Fellowships Call concerned at the latest, eligible to be promoter of an applicant to a F.R.S.-FNRS fellowship.

A proposal is necessarily linked to an academic institution. In that sense, the term “promoter” is used in its broadest acceptation. This underlies that a young researcher must have a host institution and a direct supervisor (and a postdoctoral co-promoter if any). More broadly, a promoter is a reference person involved in a proposal, e.g. the director of a research group joined by a more experienced researcher.

If doctoral researchers wish to conduct part of their research works in a state scientific institution, their supervisor in this institution can be a co-promoter only. In addition to their attachment to a CFB university, doctoral researchers may be co-supervised in another research institution.

\(^9\) Research logisticians of rank A, as defined by the Royal Decree of 31\(^{st}\) October 1953 fixing 'le statut des agrégés, des répétiteurs et des membres du personnel scientifique des universités de l’État', are not eligible as promoters of doctoral fellowships.

For the postdoctoral fellowships, does not include logisticians

\(^10\) This rule does not apply for promoters of an applicant applying for a Research Associate fellowship.
Validation process:
The applicant must validate the proposal and then have it validated by the possible promoter who marks her/his commitment to the project by confirming the accuracy of the information provided by the applicant. The validation by the competent academic authorities constitutes the last step of the procedure. The whole procedure must be completed by the validation deadline set for the academic authorities (rectors), as planned for the given instrument.

2.1.4 TYPICAL CONTENT OF A “RESEARCHER” PROPOSAL

The aim of a “researcher” instrument is to fund a person: the main subject of the selection is the researcher her/himself whose skills, necessary to accomplish a research project, are assessed. This specific attention to the quality of the researcher is highly emphasised for an applicant to the position of Postdoctoral Researcher whose research topic could evolve throughout her/his career.

The 3-dimensional frame of proposals:
For each instrument (except for those enabling an extension of the ongoing fellowship), the content of a proposal shall provide the reviewer with the means to evaluate the potential of an applicant, based on three frames:

• the applicant: factual elements demonstrating her/his qualities, past achievements…
• A particular attention is paid to the scientific material, embodied by publications.
• the research project: expression of the creativity, the robustness of the methodological approach and the position of the applicant among the scientific community related to their field. The project is divided in different parts as presented hereunder.
• the research environment (included in the scientific section): intellectual, human, equipment, collaborative networks… resources at the disposal of the researcher in order to carry out the project. The adequacy between the resources and the project submitted will be assessed.

These elements are adjusted and balanced depending on the goals of each instrument.

The ULYSSE Incentive Grant for Mobility in Scientific Research has a slightly different structure, given its specific goals (team).

The applicant:
For all the instruments, the evaluation of an applicant is based notably on the academic background (training), previous achievements, the career path, peer reviews (reference letters, honours, awards…). The requested elements depend mainly on the level of the fellowship and on the instrument (see below).

The types of publications by the applicant (published or accepted) that can be attached to a proposal and the required structure for the publication lists are presented in Chapter 1.3.3.

The project:
The project includes a title and a summary, which must be provided both in French and in English, regardless of the language chosen for the proposal. They shall contain respectively 200 and 2,000 characters maximum (including spaces), in each language.

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11 For Research Fellow applicants, Medical Doctor Applicants to an MSc and a Ph.D., Clinical Master Specialist Applicants to a Ph.D., Veterinary MD Ph.D. students, Postdoctoral Researchers, Post-doctorate Clinical Master Specialist and Research Associates, an opinion letter will be requested from the promoter when validating on E-SPACE.
The project (max. 4 pages\textsuperscript{12}) shall be written in one language only and described in a document accompanied by a reference bibliography (max. 1 page besides the 4 pages dedicated to the project) listed by order of appearance within the text and divided in 4 parts:

- Goals of the research
- State of the art
- Research project
- Work plan (to be described for the whole duration of the fellowship and as for experienced researcher positions a 5-year description is required)

This document can be completed with max. 2 additional pages containing graphs and tables.

**The research environment:**
The content (max. 1 page) varies depending on the nature of the project, the research field and the nature of the fellowship.

\textsuperscript{12} In order to reduce applicants’ workload when writing their proposal, MR and DR applicants to the promotion at hand will have to provide a description of their research orientation for the next 5 to 10 years (in 2 pages max.), instead of a comprehensive 4-page description of their research project as formerly required.
2.2 DOCTORAL RESEARCHERS

Goals of the instruments:
The purpose of these fellowships is the training of young researchers who wish to obtain a doctoral thesis.

Five instruments intended for doctoral researchers are available within the framework of the “Grants and Fellowships” call:

• the fellowship for Research Fellows, a full-time research grant intended for young researchers (all fields);
• the part-time fellowship for Medical Doctor Applicants to a MSc and a Ph.D., intended for clinical doctors;
• the part-time fellowship for Clinical Master Specialist Applicants to a Ph.D., intended for accredited specialists doctors;
• the part-time fellowship for Veterinary MD. Ph.D. Students, intended for veterinary doctors;
• the Special Doctoral Grant intended for secondary education teachers who need to devote one year to research, on a full-time basis, in order to finalise their Ph.D. (all fields).

General eligibility criteria:
Applicants to a doctoral fellowship must hold a 2nd cycle degree which allows them to access doctoral studies.

Specific remarks:
For any applicant to a Doctoral Researcher instrument:

• The applicant’s ranking established by the faculty which has awarded the eligible Master degree required as part of the application will also be considered for the evaluation. Applicants are required to complete the ad hoc document in order to upload it on a dedicated page at https://e-space.frs-fnrs.be by 1st May of the year of the considered Grants and Fellowships Call, at the latest, as a follow-up to their application file.

• The result of the Master thesis, if available at the latest by the validation deadline set for the academic authorities (rectors), will be communicated to the Scientific Commission.

General Regulation on fellowships:
Doctoral researchers’ fellowships are linked to a 3rd cycle university training provided by doctoral schools. All doctoral applicants must thus pertain to a doctoral school.

The doctoral schools of the CFB depend upon the FNRS and are listed on the website, at: https://www.frs-fnrs.be/en/financements/chercheur-doctorant/ecoles-doctorales.
2.2.1 KEY DATES OF THE CALL 2023 FOR DOCTORAL RESEARCHERS

*Please note that this is a fixed deadline and the applicant will not be able to edit, save or submit the application once this deadline has passed. Please make sure that it is submitted in advance.

2.2.2 FELLOWSHIP FOR RESEARCH FELLOWS (FULL-TIME)

Operational conditions of the fellowship:
The Research Fellow fellowship aims at the completion of a Ph.D. within 4 years. The fellowship appears in the form of a 2-year grant, which may be renewed for maximum 2 more years, subject to the approval of the authorised academic body.

The doctor who is granted with a Research Fellow fellowship shall decide to suspend a complementary Master degree/medical specialisation during the whole duration of the fellowship.

Holders of a Research Fellow fellowship receive an operating credit under the responsibility of their promoter, which enables them to conduct their research.

2.2.2.1 Research Fellow (ASP - Aspirant), initial term: 2 years

For all ASP applications: Specific appendices

Key dates of the call 2022: see page 19

Eligibility criteria:
An applicant to a Research Fellow fellowship (ASP – Aspirant) must hold a 2nd cycle degree (Master’s) for maximum 3 years (for no more than the duration of the specialisation for doctors and veterinarian applicants who have been undertaking a medical or veterinary

13 All times are Brussels local time.
specialty training\textsuperscript{14}, by the validation deadline set for the rector of the host university at the latest.

\textbf{Year extension possibility:} an additional year per childbirth or adoption.

Students enrolled in a Belgian university, in their (Master’s) graduation year giving access to doctoral studies, may also submit an application file, provided that the graduation date is prior to the starting date of the requested fellowship (1\textsuperscript{st} October of the year of the considered Grants and Fellowships Call).

\textbf{Application restrictive rules:}
Applicants who have already benefited from a Research Fellow fellowship (ASP), whatever its duration, are no longer allowed to apply for another Research Fellow fellowship (ASP).

A Research Fellow fellowship has a maximum duration of 48 months. Applicants who received a FRIA/FRESH grant for instance cannot benefit from the maximum duration possible under a FNRS fellowship as it is deducted from the funded period of the FRIA/FRESH grant.

\textbf{Submission procedure:}
The application for an ASP fellowship can be made exclusively online on E-SPACE. Following the applicant’s validation, the proposal is verified and validated by the promoter, and then by the rector.

\textbf{Content and evaluation of the proposal:}
The content is structured around 3 parts relevant to the “researcher” instruments. Each category is assigned a weight in order to calculate the overall grade of the proposal:

• quality of the applicant (60%): academic CV, promoter’s opinion (creativity, intellectual abilities, etc.);
• quality of the project (25%): feasibility, methodology, originality, potential impact;
• research environment (15%).

The detail of the information required from applicants is available on E-SPACE.

2.2.2.2 Research Fellow renewal
\textit{(ASP-REN - Aspirant renouvellement): maximum 2 years}

For all ASP-REN applications: \textbf{Specific appendices}

\textbf{Key dates of the call 2022:} see page 19

\textbf{Submission procedure:}
The application for a renewal must be submitted during the second year of the first fellowship. The FNRS will give the relevant researchers access to the online form on E-SPACE.

The application for an ASP-REN fellowship can be made exclusively online on E-SPACE. Following the applicant’s validation, the proposal is verified and validated by the promoter, and then by the rector.

\textsuperscript{14} Applicants in this situation are required to enclose to their application file a registration document concerning the specialty in question by the validation deadline set for the academic authorities (rectors).
An opinion document attached to the application must be completed by the Supervisory Panel (Thesis Advisory Committee). Once completed and signed, the document must be sent to the research unit of the CFB institution (or Board of Education) in order to be signed by the academic authorities. The latter will send the document to the FNRS by 31st May of the year of the considered Grants and Fellowships Call, at the latest.

**Evaluation of the proposal:**
The evaluation of the Research Fellow fellowship renewal (ASP-REN) application is based on the attached document, in which the academic body expresses its opinion on the feasibility of the project and confirms that the thesis should be defended by the end of the fellowship.

When the CFB university takes the ultimate decision for the applicant not to further continue doctoral studies and when the Rector notifies the FNRS in writing, the Research Fellow fellowship will expire at the end of the ongoing fellowship.

### 2.2.3 PART-TIME FELLOWSHIPS FOR CLINICAL DOCTORS

This category is restricted to clinical doctors who wish to dedicate themselves to fundamental research while pursuing a part-time hospital activity.

The promoter of an applicant to a Medical Doctor Applicants to an MSc and a Ph.D. (CSD – Candidat spécialiste doctorant) or a Clinical Master Specialist Applicants to a Ph.D. (SD – Spécialiste doctorant) fellowships shall be appointed in a CFB university which has a faculty of medicine offering a complete curriculum.

**Operational conditions of the fellowship:**
Clinical doctors keep on receiving their hospital salary (full-time position). The FNRS transfers a (capped) compensation directly to the hospital employing the clinical doctor, as a reimbursement for the clinical activities that are not performed during the time dedicated to research.

#### 2.2.3.1 Medical Doctor Applicant to an MSc and a Ph.D.
(CSD - Candidat spécialiste doctorant), initial term: 2 years

For all CSD applications: [Specific appendices](#)

**Key dates of the call 2022:** see page 19

**Characteristics of the fellowship:**
This fellowship is intended for doctors in order to carry out a Ph.D. in in one of the fields of the health sector and complete an Advanced Master’s degree simultaneously. The duration of this part-time fellowship is applicable for 2 years maximum, renewable three times (equivalent to a duration of 8 years maximum).

A part-time fellowship for Medical Doctor Applicants to an MSc and a Ph.D. (CSD – Candidat spécialiste doctorant) can begin anytime during the specialisation but shall end at the latest 4 years after the end of the specialisation.

**Eligibility criteria:**
The applicant to a CSD fellowship must hold the academic degree of medical doctor at the latest on 1st October of the year when the fellowship is granted and shall start.

**Submission procedure:**
The application for a CSD fellowship can be made exclusively online on E-SPACE. Following the applicant’s validation, the proposal is verified and validated by the promoter, and then by the rector.

**Content and evaluation of the proposal:**
The content is structured around 3 parts relevant to the “researcher” instruments. Each category is assigned a weight in order to calculate the overall grade of the proposal:

- **quality of the applicant (60%):** academic CV, promoter’s opinion (creativity, intellectual abilities, etc.);
- **quality of the project (25%):** feasibility, methodology, originality, potential impact;
- **research environment (15%).**

The detail of the information required from applicants is available on E-SPACE.

**2.2.3.2 Medical Doctor Applicant to an MSc and a Ph.D. renewal**
(CSD-REN - Candidat spécialiste doctorant renouvellement):

2-year fellowship renewable twice

For all CSD-REN applications: [Specific appendices](#)

**Key dates of the call 2022:** see page 19

**Submission procedure:**
The application for a renewal must be submitted during the second year of each granted fellowship. The FNRS will give the relevant researchers access to the online form on E-SPACE.

The application for a CSD-REN fellowship can be made exclusively online on E-SPACE. Following the applicant’s validation, the proposal is verified and validated by the promoter, and then by the rector.

Except for the second renewal fellowship (CSD-REN2), an opinion document attached to the application must be completed by the Supervisory Panel (Thesis Advisory Committee). Once completed and signed, the document must be sent to the research unit of the French-speaking Community institution (or Board of Education) in order to be signed by the academic authorities. The latter will send the document to the FNRS by 31st May of the year of the considered Grants and Fellowships Call, at the latest.

**Evaluation of the proposal:**
Except for the second renewal fellowship (CSD-REN2), the evaluation of the Medical Doctor Applicant to an MSc and a Ph.D. renewal (CSD-REN) application is based on the attached document, in which the academic body expresses its opinion on the feasibility of the project and confirms that the thesis should be defended by the end of the fellowship.

Concerning the second renewal fellowship (CSD-REN2), the application will be subject to an evaluation by the relevant Scientific Commission.

**2.2.3.3 Fellowship for Clinical Master Specialist Applicant to a Ph.D.**
(SD - Spécialiste doctorant), initial term: 2 years

For all SD applications: [Specific appendices](#)

**Key dates of the call 2022:** see page 19

**Characteristics of the fellowship:**
This fellowship is intended for accredited medical specialists in order to carry out a Ph.D. in one of the fields of the health sector. The duration of this part-time fellowship is applicable for 2 years maximum, renewable once (equivalent to a duration of 4 years maximum).

**Eligibility criteria:**
The SD fellowship is opened to applicants holding the academic degree of Doctor and who have a medical specialisation degree, at the latest on 1st October of the year when the fellowship is granted and shall start.

**Specific application rule:**
Applicant to a SD fellowship must have received the accreditation of medical specialist from one of the three Communities responsible for accreditation for maximum 3 years. This period expires on 1st October of the year when the fellowship is granted and shall start.

**Year extension possibility:** an additional year per childbirth or adoption.

**Submission procedure:**
The application for a SD fellowship can be made exclusively online on E-SPACE. Following the applicant’s validation, the proposal is verified and validated by the promoter, and then by the rector.

**Content and evaluation of the proposal:**
The content is structured around 3 parts relevant to the “researcher” instruments. Each category is assigned a weight in order to calculate the overall grade of the proposal:

- quality of the applicant (60%): academic CV, promoter’s opinion (creativity, intellectual abilities, etc.);
- quality of the project (25%): feasibility, methodology, originality, potential impact;
- research environment (15%).

The detail of the information required from the applicants is available on E-SPACE.

2.2.3.4  *Clinical Master Specialist Applicant to a Ph.D. renewal (SD-REN - Spécialiste doctorant renouvellement)*: maximum 2 years

For all SD-REN applications: [Specific appendices](#)

**Key dates of the call 2022:** see page 19

**Submission procedure:**
The application for a renewal must be submitted during the second year of the first fellowship. The FNRS will give the relevant researchers access to the online form on E-SPACE.

The application for a SD-REN fellowship can be made exclusively online on E-SPACE. Following the applicant’s validation, the proposal is verified and validated by the promoter, and then by the rector.

An opinion document attached to the application must be completed by the Supervisory Panel (Thesis Advisory Committee). Once completed and signed, the document must be sent to the research unit of the CFB institution (or Board of Education) in order to be signed by the academic authorities. The latter will send the document to the FNRS by 31st May of the year of the considered Grants and Fellowships Call, at the latest.

**Evaluation of the proposal:**
The evaluation of the Clinical Master Specialist Applicant to a Ph.D. renewal (SD-REN) application is based on the attached document, in which the academic body expresses
its opinion on the feasibility of the project and confirms that the thesis should be defended by the end of the fellowship.

2.2.4 PART-TIME VETERINARY MD. PH.D. STUDENT FELLOWSHIP

This category is restricted to veterinary doctors in the course of a clinical specialisation in order to enable them to prepare and present a doctoral thesis, while pursuing a part-time activity, within the framework of their clinical training.

Operational conditions of the fellowship:
Clinicians keep on receiving their hospital salary (full-time position). The FNRS transfers a (capped) compensation directly to the university to which they are attached, as a reimbursement for the clinical activities that are not performed during the time dedicated to research.

This part-time research fellowship is applicable for 2 years maximum, renewable once (equivalent to a maximum duration of 4 years).

Applicants who receive a VETE-CCD fellowship must be enrolled in the Doctoral School in veterinary sciences attached to the FNRS at the latest by the time of the granting.

2.2.4.1 Veterinary MD. Ph.D. Student
(VETE-CCD - Vétérinaire Clinicien-Chercheur Doctorant), initial term: 2 years

For all VETE-CCD applications: Specific appendices

Key dates of the call 2022: see page 19

Eligibility criteria:
In addition to general criteria applicable to doctoral fellowships, the following criteria are specific to the VETE-CCD:

• Hold the academic degree of Veterinary Doctor,
• Be less than 35 years old by the validation deadline set for the academic authorities (rectors) to validate the application,
• Have been enrolled for at least 2 years in a “Residency training programme” (including internship) approved by the European bodies (European Colleges recognised by the European Board of Veterinary Specialisation), by 1st October of the year during which the fellowship is granted and should start, at the latest.

Submission procedure:
The application for a VETE-CCD fellowship can be made exclusively online on E-SPACE. Following the applicant’s validation, the proposal is verified and validated by the promoter, and then by the rector.

Content and evaluation of the proposal:
The content is structured around 3 parts relevant to the “researcher” instruments. Each category is assigned a weight in order to calculate the overall grade of the proposal:

• quality of the applicant (60%): academic CV, promoter’s opinion (creativity, intellectual abilities, etc.);
• quality of the project (25%): feasibility, methodology, originality, potential impact;
• research environment (15%).
The detail of the information required from the applicants is available on E-SPACE.
2.2.4.2 Veterinary MD. Ph.D. Student renewal (VETE-CCD-REN - Vétérinaire Clinicien-Chercheur Doctorant renouvellement): maximum 2 years

For all VETE-CCD-REN applications: Specific appendices

Key dates of the call 2022: see page 19

Submission procedure:
The application for a renewal must be submitted during the second year of the first fellowship. The FNRS will give the relevant researchers access to the online form on E-SPACE.

The application for a VETE-CCD-REN fellowship can be made exclusively online on E-SPACE. Following the applicant’s validation, the proposal is verified and validated by the promoter, and then by the rector.

An opinion document attached to the application must be completed by the Supervisory Panel (Thesis Advisory Committee). Once completed and signed, the document must be sent to the research unit of the CFB institution (or Board of Education) in order to be signed by the academic authorities. The latter will send the document to the FNRS by 31st May of the year of the considered Grants and Fellowships Call, at the latest.

Evaluation of the proposal:
The evaluation of the Veterinary MD. Ph.D. Student renewal Veterinary MD. Ph.D. Student renewal (VETE-CCD-REN) application is based on the attached document, in which the academic body expresses its opinion on the feasibility of the project and confirms that the thesis should be defended by the end of the fellowship.

2.2.5 SPECIAL DOCTORAL GRANT FOR SECONDARY EDUCATION TEACHERS (1 YEAR)

Special Doctoral Grants (BSD) are intended for university graduates of the French-speaking Community of Belgium (CFB), teaching in secondary education, benefiting from employment stability and who may be granted a special leave without pay for one year, with the assurance that they will get their position back at the end of that leave, to enable them to complete a research work to obtain a degree of Doctor in a CFB university.

2.2.5.1 Special Doctoral Grant for secondary education teachers (1 year)
(BSD - Bourse spéciale de doctorat)

For all BSD applications: Specific appendices

Key dates of the call 2022: see page 19

Eligibility criteria:
In addition to general criteria applicable to doctoral fellowships, the following criteria are specific to the Special Doctoral Grant fellowship (BSD – Bourse spéciale de doctorat):

• to be at least 28 years old on the starting date of the grant;
• to be 45 years old maximum on the starting date of the grant;
• to enjoy a stable employment and to be able to obtain a non-active status with the certainty to get the teaching position back.
Application restrictive rule:
Applicants who have already benefited from a BSD fellowship, whatever its duration, may not apply for another BSD fellowship.

Operational conditions of the fellowship:
The duration of the BSD fellowship is one year. It begins on 1st September of the granting year and ends on 31st August of the following year.

Submission procedure:
Applicants to a BSD fellowship must submit an access request to the FNRS by sending an email to bourses-mandats@frs-fnrs.be, add “Appel BSD 2022” in the subject line and attach the following documents:

- a curriculum vitae, highlighting the position as a secondary education teacher with a complete timetable. The CV must also include the date of birth, the degrees obtained, the career path, as well as the information on the doctoral thesis (starting date, CFB university and promoter);
- a certification, which grants a non-active status and is issued by the institution where the applicant holds a teacher’s position.

The application for a BSD fellowship can be made exclusively online on E-SPACE. Following the applicant’s validation, the proposal is verified and validated by the promoter, and then by the rector.

An opinion document attached to the application must be completed by the Supervisory Panel (Thesis Advisory Committee). This document must be duly completed and signed and sent to the research unit of the CFB institution (Board of Education) in order to be signed by the academic authorities. The latter must send the document to the FNRS by 31st May of the year of the Grants and Fellowships Call concerned at the latest.

The applicant must provide a statement by their promoter, in which the latter:

• takes the scientific responsibility for the research work;
• sponsors the applicant within the Faculty where s/he wishes to present the Ph.D.;
• certifies that the work has progressed enough and can be therefore achieved within a year, on a full-time basis;
• attests that the applicant will not be able to successfully complete the research if s/he is not relieved from her/his duties.

The appendices must be sent to the FNRS by the validation deadline set for the academic authorities (rectors) at the latest.

Content of the proposal:
The information required from the applicants is related mainly to their background and their thesis project, including the work plan and the project progress.

Evaluation of the proposal:
The evaluation of each BSD fellowship application is based on the attached document, in which the academic body expresses its opinion on the feasibility of the project and confirms that the thesis should be defended by the end of the grant.
2.3 POSTDOCTORAL RESEARCHERS

Goals of the instruments:
These fellowships are intended for researchers holding the academic degree of Doctor (with thesis) in order to further develop their research experience.

Within the framework of the “researcher” call, two instruments are available for postdoctoral researchers:

- the fellowship for Postdoctoral Researchers, which is a full-time research fellowship (all fields);
- the fellowship for Post-doctorate Clinical Master Specialists, which is a part-time research fellowship intended for accredited specialist doctors.

2.3.1 KEY DATES OF THE CALL 2023 FOR POSTDOCTORAL RESEARCHERS

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*Please note that this is a fixed deadline and the applicant will not be able to edit, save or submit the application once this deadline has passed. Please make sure that it is submitted in advance.

2.3.2 POSTDOCTORAL RESEARCHER (FULL-TIME)

Operational conditions of the fellowship:
The duration of the Postdoctoral Researcher fellowship (CR – Chargé de recherches) is 3 years. Any Postdoctoral Researcher has the possibility to spend 3 years of the fellowship out of a 6-year cycle to carry out a postdoctoral research outside the CFB, provided that they find an external funding.

Postdoctoral Researchers benefit from an operating credit, which enables them to conduct their research.

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15 All times are Brussels local time.
2.3.2.1 Postdoctoral Researcher\textsuperscript{16}

(CR - Chargé de recherches): 3 years

For all CR applications: Specific appendices

**Key dates of the call 2022:** see page 27

**Eligibility criteria:**
Applicants to a Postdoctoral Researcher fellowship (CR – Chargé de recherches) must meet one of the two following conditions:

- to hold a doctoral degree (Ph.D.) for maximum 5 years by the validation deadline set for the academic authorities (rectors) at the latest,
- or
- to hold this degree at the latest by 1\textsuperscript{st} May of the year of the considered Grants and Fellowships Call (in such case the applicant must upload a sworn statement in the application file).

**Year extension possibility:** an additional year per childbirth or adoption.

**Application restrictive rule:**
Applicants who have already benefited from a CR fellowship, whatever its duration, shall not apply for another CR fellowship.

**Submission procedure:**
The application for a CR fellowship can be made exclusively online on E-SPACE. Following the applicant’s validation, the proposal is verified and validated by the promoter, and then by the rector.

**Content and evaluation of the proposal:**
The content is structured around 3 parts relevant to the “researcher” instruments. Each category is assigned a weight in order to calculate the overall grade of the proposal:

- quality of the applicant (40%): number and quality of the publications (journals, citations, etc.) promoter’s opinion (creativity, intellectual abilities, independency, etc.), awards;
- quality of the project (40%): feasibility, methodology, originality, potential impact;
- research environment (20%).

The detail of the information required from the applicants is available on E-SPACE.

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2.3.3 PART-TIME POSTDOCTORAL FELLOWSHIP FOR CLINICAL DOCTORS

This category is restricted to Postdoctoral accredited specialist clinical doctors who wish to dedicate themselves to fundamental research while pursuing a part-time hospital activity.

The promoter of the applicant to a part-time Post-doctorate Clinical Master Specialist (SPD) fellowship shall be appointed in a CFB university which has a faculty of medicine offering a complete curriculum.

**Operational conditions of the fellowship:**

\textsuperscript{16} Applicants to a Postdoctoral Research fellowship who are planning one or several research stays will be required to provide a letter of approval or email exchanges which demonstrate that formalities are being processed.
Clinical doctors keep on receiving their hospital salary (full-time position). The FNRS transfers a (capped) compensation directly to the hospital employing the clinical doctor, as a reimbursement for the clinical activities that are not performed during the time dedicated to research.

The part-time SPD fellowship consists of a 6-year probation period divided in three 2-year fellowships followed by 4-year fellowships that can be renewed without limits. As from the first 4-year renewal, the name of the fellowship becomes Clinical Researcher (CCL – Chercheur Clinicien).

### Evolution of career and scientific evaluation cycles

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<tr>
<td></td>
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<td>CCL 1st Renewal and following</td>
<td>Evaluation by a CS</td>
</tr>
</tbody>
</table>

* In case the fellowship holder switches to another hospital, service or research topic during the fellowship, they must inform the FNRS who will re-evaluate the file.

2.3.3.1 Fellowship for Post-doctorate Clinical Master Specialists (SPD - Spécialiste postdoctorant), initial term: 2 years

For all SPD applications: Specific appendices

Key dates of the call 2022: see page 27

Eligibility criteria:
Applicants to a fellowship for Post-doctorate Clinical Master Specialists (SPD – Spécialiste postdoctorant) must meet the 2 following conditions:

• hold the academic degree of medical specialist,
• hold a doctoral degree (Ph.D.) in one of the fields of the health sector for maximum 5 years by the validation deadline set for the academic authorities (rectors) at the latest,

or

• to hold this degree at the latest by 1st May of the year of the considered Grants and Fellowships Call (in such case the applicant must upload a sworn statement in the application file).

Year extension possibility: an additional year per childbirth or adoption.

Submission procedure:
The application for a SPD fellowship can be made exclusively online on E-SPACE. Following the applicant’s validation, the proposal is verified and validated by the promoter, and then by the rector.

**Content and evaluation of the proposal:**
The content is structured around 3 parts specific to the “researcher” instruments. Each category is assigned a weight in order to calculate the overall grade of the proposal:

- quality of the applicant (40%): number and quality of the publications (journals, citations, etc.) promoter’s opinion (creativity, intellectual abilities, independency, etc.), awards;
- quality of the project (40%): feasibility, methodology, originality, potential impact;
- research environment (20%).

The detail of the information required from the applicants is available on E-SPACE.

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2.3.3.2 Post-doctorate Clinical Master Specialist Renewal Fellowship

(SPD-REN - Spécialiste postdoctorant renouvellement):

2-year fellowship renewable once

For all SPD-REN applications: [Specific appendices](#)

**Key dates of the call 2022:** see page 27

**Submission procedure:**
The FNRS will give the relevant researchers access to the online form on E-SPACE.

The application for a Fellowship for Post-doctorate Clinical Master Specialists renewal (SPD-REN - Spécialiste postdoctorant renouvellement) can be made exclusively online on E-SPACE. Following the applicant’s validation, the proposal is verified and validated by the promoter, and then by the rector.

**Evaluation of the proposal:**
The first renewal of the Post-doctorate Clinical Master Specialist fellowship shall be requested during the second year of the fellowship and simply upon request by the applicant.

The second renewal will be assessed by the relevant Scientific Commission.

**Content and evaluation of the proposal of the second renewal:**
The content is structured around 3 parts specific to the “researcher” instruments. Each category is assigned a weight in order to calculate the overall grade of the proposal:

- quality of the applicant (40%): number and quality of the publications (journals, citations, etc.) promoter’s opinion (creativity, intellectual abilities, independency, etc.), awards;
- quality of the project (40%): feasibility, methodology, originality, potential impact;
- research environment (20%).

The detail of the information required from the applicants is available on E-SPACE.

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2.3.3.3 Clinical Researcher

(CCL – Clinicien chercheur):

4-year fellowship renewable without limits

For all CCL applications: [Specific appendices](#)

**Key dates of the call 2022:** see page 27
Submission procedure:
The FNRS will give the relevant researchers access to the online form on E-SPACE.

The application for a Fellowship for Clinical Researcher (CCL – Clinicien chercheur) can be made exclusively online on E-SPACE. Following the applicant’s validation, the proposal is verified and validated by the promoter, and then by the rector.

Evaluation of the proposal:
The fellowship will be assessed by the relevant Scientific Commission.

Content and evaluation of the proposal of the second renewal:
The content is structured around 3 parts specific to the “researcher” instruments. Each category is assigned a weight in order to calculate the overall grade of the proposal:

- quality of the applicant (40%): number and quality of the publications (journals, citations, etc.) promoter’s opinion (creativity, intellectual abilities, independency, etc.), awards;
- quality of the project (40%): feasibility, methodology, originality, potential impact;
- research environment (20%).

The detail of the information required from the applicants is available on E-SPACE.
2.4 PERMANENT RESEARCHERS

The fellowship for permanent researchers is an instrument enabling to dedicate oneself to research. This open-ended fellowship includes 3 levels:

• the fellowship for Research Associate (CQ – Chercheur qualifié);
• the fellowship for Senior Research Associate (MR – Maître de recherches), a promotion of the CQ fellowship based on merit;
• the fellowship for Research Director (DR – Directeur de recherches), a promotion of the MR fellowship based on merit.

2.4.1 FELLOWSHIP FOR RESEARCH ASSOCIATES\(^{17}\)
(CQ – Chercheur qualifié)

For all CQ applications: Specific appendices

Key dates of the call 2022: see page 27

Eligibility criteria:
Applicants to a Research Associate fellowship (CQ – Chercheur qualifié) must hold the academic degree of Doctor, obtained after the defence of a thesis, and issued by an academic institution for maximum 10 years by the validation deadline set for the academic authorities (rectors) at the latest.

Year extension possibility: an additional year per childbirth or adoption.

Application restrictive rule:
Applicants who would have previously resigned from a Research Associate fellowship (CQ) shall not apply for a new fellowship.

Operational condition of the fellowship:
Research Associates benefit from an operating credit during the first 3 years of the fellowship.

Submission procedure:
The application for a Research Associate fellowship (CQ) can be made exclusively online on E-SPACE. Following the applicant’s validation, the proposal is verified and validated by the promoter, and then by the rector.

Content and evaluation of the proposal:
The content is structured around 3 parts specific to the “researcher” instruments, to which the notion of “international potential/recognition” is added. Each category is assigned a weight in order to calculate the overall grade of the proposal:

• quality of the applicant (40%): number and quality of the publications (journals, citations, etc.), opinion of the promoter and of 3 worldwide renowned referees (creativity, international influence, ability to develop a team, independency, etc.), funded projects, grants, and awards obtained;

\(^{17}\) As for Research Associate fellowships, the Scientific Commissions will not suggest the Board of Trustees a ranking but a list of maximum 4 applicants ranked A, who may be nominated during the same year. No recruitment other than among the 4 applicants will be allowed. Thus, the Scientific Commissions make recruitment suggestions and the final selection is made by the Board of Trustees of the FNRS, guided by the opinion of the Scientific Commissions, on the one hand, and by the respective institutional strategies and permanent positions availabilities assigned to the universities, on the other hand.
• quality of the project (25%): feasibility, methodology, originality, potential impact;
• research environment (10%);
• international potential/recognition (25%): long stays abroad\textsuperscript{18}, invitations to international conferences, active collaborations, participation in networks.
The detail of the information required from the applicants is available on E-SPACE.

2.4.2 \textbf{PROMOTION: SENIOR RESEARCH ASSOCIATE}
\hfill (\textit{MR - Maître de recherches})

\textbf{Key dates of the call 2022:} see page 27

\textbf{Eligibility criteria:}
In accordance to article 10, §1 of the Rules and Regulations:

“Holders of a FNRS CQ fellowship may seek promotion to the MR title as from the beginning of the 8\textsuperscript{th} academic year following their appointment, provided that they have been carrying out a fundamental research activity for those years.”

\textbf{Application restrictive rules:}
Applicants who would have previously resigned from a MR fellowship shall not apply for a new fellowship.

The promotion to the MR title shall not be sought more than three times over a period of nine years.

\textbf{Submission procedure:}
The application for a Senior Research Associate fellowship (MR) can be made exclusively online on E-SPACE. Following the applicant’s validation, the proposal is validated by the rector.

\textbf{Content and evaluation of the proposal:}
The content provided is used to evaluate the relevance of the promotion requested by the applicant:

• quality of the applicant: number and quality of the publications (journals, citations, etc.), opinion of 3 worldwide renowned referees (creativity, international influence, ability to develop a team, independency, etc.), funded projects, grants, and awards obtained;
• research orientation;
• international potential/recognition: long stays abroad, invitations to international conferences, active collaborations, participation in networks, list of supervised Master dissertations and Ph.D. theses.

The detail of the information required from the applicants is available on E-SPACE.

2.4.3 \textbf{PROMOTION: RESEARCH DIRECTOR}
\hfill (\textit{DR - Directeur de recherches})

\textbf{Key dates of the call 2022:} see page 27

\textbf{Eligibility criterion:}
Senior Research Associates (MR – Maître de recherches) who genuinely carry out the fellowship may seek promotion to the title of Research Director (DR – Directeur de recherches).

\textsuperscript{18} A long stay abroad is a key element adding value to the application file.
recherches) as from the beginning of the 4th year of the Senior Research Associate fellowship (MR).

Application restrictive rules:
Applicants who would have previously resigned from a DR fellowship shall not apply for a new fellowship.

The promotion to the DR title shall not be sought more than three times over a period of nine years.

Submission procedure:
The application for a DR fellowship can be made exclusively online on E-SPACE. Following the applicant’s validation, the proposal is validated by the rector.

Content and evaluation of the proposal:
The content provided is used to evaluate the relevance of the promotion requested by the applicant:

• quality of the applicant: number and quality of the publications (journals, citations, etc.), opinion of 3 worldwide renowned referees (creativity, international influence, ability to develop a team, independency, etc.), funded projects, grants, and awards obtained;
• research orientation;
• international potential/recognition: long stays abroad, invitations to international conferences, active collaborations, participation in networks, list of supervised Master dissertations and Ph.D. theses.

The detail of the information required from the applicants is available on E-SPACE.
2.5 ESTABLISHMENT IN THE FRENCH-SPEAKING COMMUNITY OF BELGIUM (CFB)

The goal of the funding granted within the framework of the ULYSSE Incentive Grant for Mobility in Scientific Research (MISU) consists in encouraging highly-qualified Belgian or foreign researchers who have a scientific research activity and are paid abroad, to come in Belgium and pursue their career in a university of the CFB.

The MISU promoter is remunerated by the host university and receives an annual credit of € 200,000 based on an annual average, which can be allocated to cover personnel, operating or equipment costs. The duration of the fellowship is 2 years, with the possibility to renew it for 1 year.

2.5.1 ULYSSE INCENTIVE GRANT FOR MOBILITY IN SCIENTIFIC RESEARCH
(MISU - Mandat d’Impulsion Scientifique - Mobilité ULYSSE), initial term: 2 years

For all MISU applications: Specific appendices

Key dates of the call 2022: see page 27

Eligibility criteria:
When submitting their application, applicants must not hold a FNRS fellowship.

Applicants must meet the following conditions at the latest by the validation deadline set for the academic authorities (rectors):

• have a full-time scientific research activity and be paid abroad since at least five years;
• may have completed maximum 12 months put together of research stays in Belgium during the last five years.

Application restrictive rule:
Applicants may not apply for a MISU more than three times.

Applicant’s profile:
The applicant must be an active researcher who has an excellent career track record during the past ten years, demonstrating significant research results. They must have the required skills for leading a research team and enjoy an international scientific recognition.

Submission procedure and content of the file:
The application for a MISU can be made exclusively online on E-SPACE. Following the applicant’s validation, the proposal is validated by the rector.

In addition to the electronic form, the application must include the letter of endorsement by the rector of the host university.

Criteria taken into account for the evaluation of the proposal:
• Originality and novelty of the project;
• Possibility to launch a new research unit;
• Scientific autonomy with respect to any existing research unit or laboratory in the host university;
• Future-oriented theme (development prospect of the field of study);
• 3 recommendations from scientific experts;
• Scientific experience of the applicant.

2.5.2 ULYSSE INCENTIVE GRANT FOR MOBILITY IN SCIENTIFIC RESEARCH, EXTENSION (MISU-PROL): 1 YEAR
Key dates of the call 2022: see page 27

Submission procedure:
The extension request shall be submitted during the second year of the first fellowship. The FNRS will give the relevant researchers access to the online form on E-SPACE.

The request for a MISU-PROL grant can be made exclusively online on E-SPACE. Following the applicant’s validation, the proposal is verified and validated by the promoter, and then by the rector.

Evaluation of the proposal:
The request for a MISU-PROL grant is assessed by the Promotions Committee of the host university.
APPENDIX

FNRS Scientific Commissions and descriptors
Commissions scientifiques, champs descripteurs et mots-clés

Scientific Commissions, descriptor fields and keywords
| SHS-1 | Sciences Humaines et sociales – 1  
|       | Human and Social Sciences – 1  
|       | Sciences politiques, relations internationales; Sociologie, communication, études des sciences et technologies; Anthropologie sociale et culturelle; Géographie humaine et sociale, démographie, santé, sciences de la durabilité  
|       | Political sciences, international relations; Sociology, communication studies, science & technology studies; Social and cultural anthropology; Human and social geography, demography, health, sustainability science  
| SH2_1 | Systèmes politiques, gouvernance  
|       | Political systems, governance  
| SH2_2 | Démocratisation et mouvements sociaux  
|       | Democratisation and social movements  
| SH2_5 | Relations internationales, gouvernance mondiale et transnationale  
|       | International relations, global and transnational governance  
| SH2_6 | Étude du développement, assistance humanitaire  
|       | Humanitarian assistance and development  
| FNRS_1 | Démocratie  
|       | Democracy  
| FNRS_2 | Intégration européenne  
|       | European integration  
| FNRS_3 | Administration publique, politiques publiques  
|       | Public administration, public policy  
| FNRS_4 | Politiques de science, technologie et innovation  
|       | Science, technology and innovation policy  
| SH3_1 | Structure sociale, mobilité sociale, innovation sociale  
|       | Social structure, social mobility, social innovation  
| SH3_2 | Inégalités, discriminations, préjudices  
|       | Inequalities, discrimination, prejudice  
| SH3_3 | Agression et violence, comportemental antsocial, crimes  
|       | Aggression and violence, antisocial behaviour, crime  
| SH3_4 | Intégration sociale, exclusion, comportement prosocial  
|       | Social integration, exclusion, prosocial behaviour  
| SH3_6 | Influence sociale; pouvoir et comportement des groupes  
|       | Social influence; power and group behaviour  
| SH3_7 | Parenté; diversité et identités, genre, relations interethniques  
|       | Kinship; diversity and identities, gender, interethnic relations  
| SH3_8 | Politiques sociales, aides sociales, travail et emplois  
|       | Social policies, welfare, work and employment  
| SH3_9 | Pauvreté et diminution de la pauvreté  
|       | Poverty and poverty alleviation  
| SH3_10 | Sciences religieuses, rituels; représentations symboliques  
|       | Religious studies, ritual; symbolic representation  
| FNRS_5 | Anthropologie ethnographique  
|       | Ethnographic anthropology  
| FNRS_6 | Anthropologie sociale et culturelle  
|       | Social and cultural anthropology  
| SH3_11 | Aspects sociaux de l'enseignement et de l'apprentissage, sociologie de l'éducation, éducation et politiques éducatives  
|       | Social aspects of teaching and learning, curriculum studies, education and educational policies  
| SH3_12 | Communication et information, réseaux, médias  
|       | Communication and information, networks, media  
| SH3_13 | Recherche sociale digitale  
|       | Digital social research  
| SH3_14 | Études sociales des sciences et technologies  
|       | Social studies of science and technology |
| SH7_1 | Géographie humaine, économique et sociale  
       | Human, economic and social geography |
|-------|---------------------------------------|
| SH7_2 | Migration                              |
|       | Migration                              |
| SH7_3 | Dynamique des populations: ménages, familles et fertilité  
       | Population dynamics: households, family and fertility |
| SH7_4 | Aspects sociaux de la santé, du vieillissement et de la société  
       | Social aspects of health, ageing and society |
| SH7_5 | Sciences de la durabilité, environnement et ressources  
       | Sustainability sciences, environment and resources |
| SH7_6 | Changement environnemental et climatique, impact sociétal et politique sociétale  
       | Environmental and climate change, societal impact and policy |
| FNRS_7 | Démographie  
       | Demography |
| FNRS_8 | Diversité culturelle  
       | Cultural diversity |
| IDR_1 | Études de genre  
       | Gender studies |
| IDR_2 | Grands volumes de données (big data)  
       | Big data |
| SHS-2 | Sciences Humaines et sociales – 2  
Human and Social Sciences – 2 |
|--------|------------------------------------------------|
|        | Cognition; Psychologie; Sciences de l'éducation  
Cognition; Psychology; Education sciences |

| FNRS_9 | Psychologie sociale  
Social psychology |
|--------|------------------------------------------------|
| SH3_3  | Aggression et violence, comportemental antisocial, crimes  
Aggression and violence, antisocial behaviour, crime |
| SH3_4  | Intégration sociale, exclusion, comportement prosocial  
Social integration, exclusion, prosocial behaviour |
| SH3_5  | Attitudes et croyances  
Attitudes and beliefs |
| SH3_6  | Influence sociale; pouvoir et comportement des groupes  
Social influence; power and group behaviour |
| SH4_1  | Bases cognitives du développement humain et de l'éducation, troubles du développement; cognition comparée  
Cognitive basis of human development and education, developmental disorders; comparative cognition |
| SH4_2  | Cognition de la personnalité et cognition sociale; émotions  
Personality and social cognition; emotion |
| SH4_3  | Psychologie clinique et psychologie de la santé  
Clinical and health psychology |
| SH4_4  | Neuropsychologie  
Neuropsychology |
| SH4_5  | Attention, perception, action, conscience  
Attention, perception, action, consciousness |
| SH4_6  | Apprentissage, mémoire; cognition et vieillissement  
Learning, memory; cognition in ageing |
| SH4_7  | Raisonnement, prise de décision; intelligence  
Reasoning, decision-making; intelligence |
| SH4_8  | Apprentissage et traitement du langage (langues maternelles et langues secondes)  
Language learning and processing (first and second languages) |
| FNRS_10| Psychologie du travail et des organisations; Psychologie des ressources humaines  
Work and organizational psychology; Human resources psychology |
| FNRS_11| Psychopathologie expérimentale  
Experimental psychopathology |
| FNRS_12| Processus d'enseignement et d'apprentissage en contexte scolaire  
Academic teaching and learning processes |
| FNRS_13| Processus d'éducation et de formation non scolaires  
Non academic education and training processes |
| FNRS_14| Pathologies du langage  
Language pathologies |
| IDR_1  | Études de genre  
Gender studies |
| IDR_2  | Grands volumes de données (big data)  
Big data |
| SHS-3 | Sciences Humaines et sociales – 3  
Human and Social Sciences – 3 |
|-------|----------------------------------|
|       | **Linguistique; Philosophie; Littérature; Arts, études culturelles**  
**Linguistics; Philosophy; Literature; Study of the arts, cultural studies** |
| SH4_9 | Linguistique théorique; linguistique computationnelle  
Theoretical linguistics; computational linguistics |
| FNRS_16 | Linguistique de corpus, lexicographie et terminologie  
Corpus linguistics, lexicography and terminology |
| SH4_10 | Typologie des langues; linguistique historique  
Language typology; historical linguistics |
| SH4_11 | Pragmatique, sociolinguistique, anthropologie linguistique et analyse du discours  
Pragmatics, sociolinguistics, linguistic anthropology, discourse analysis |
| FNRS_15 | Acquisition, enseignement et apprentissages de langues additionnelles  
Additional language acquisition, teaching and learning |
| FNRS_17 | Linguistique contrastive  
Contrastive linguistics |
| FNRS_18 | Phonétique/phonologie, morphologie, sémantique, syntaxe  
Phonetic/phonology, morphology, semantic, syntax |
| SH2_7 | Philosophie politique et juridique  
Political and legal philosophy |
| SH4_12 | Philosophie de l'esprit, philosophie du langage  
Philosophy of mind, philosophy of language |
| SH4_13 | Philosophie des sciences, épistémologie, logique  
Philosophy of science, epistemology, logic |
| SH5_9 | Métaphysique, anthropologie philosophique; esthétique philosophique  
Metaphysics, philosophical anthropology; aesthetics |
| SH5_10 | L’éthique et ses applications; philosophie sociale  
Ethics and its applications; social philosophy |
| SH5_11 | Histoire de la la philosophie  
History of philosophy |
| FNRS_19 | Cultures classiques, littérature et lettres anciennes  
Classical cultures, ancient literature |
| FNRS_20 | Histoire de la littérature, sociologie de la littérature  
History of literature, sociology of literature |
| FNRS_21 | Théorie de la littérature, analyse de textes  
Theory of literature, textual analysis |
| FNRS_22 | Philologie  
Philology |
| FNRS_23 | Littérature comparée, intermédiaité  
Comparative literature, intermediality |
| SH5_4 | Arts visuels et arts de la scène, films, design et architecture  
Visual and performing arts, film, design and architecture |
| FNRS_24 | Musique et musicologie  
Music and musicology |
| FNRS_25 | Recherche basée sur l'art  
Arts-based research |
| FNRS_26 | Patrimoine culturel  
Cultural heritage |
| FNRS_27 | Études culturelles, mémoires culturelles  
Cultural studies, cultural memories |
| FNRS_28 | Gestion culturelle  
Cultural management |
| SH5_12 | Modélisation computationnelle et digitalisation de la sphère culturelle  
Computational modelling and digitisation in the cultural sphere |
| FNRS_29 | Théologie  
Theology |
| IDR_1 | Études de genre  
Gender studies |
| IDR_2 | Grands volumes de données (big data)  
Big data |
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<tr>
<th>FNRS_36</th>
<th>Sciences des religions, laïcité, franc-maçonnerie</th>
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<td>Religious sciences, humanism or secularism, freemasonry</td>
</tr>
</tbody>
</table>
| SHS-4 | Sciences Humaines et sociales – 4  
Human and Social Sciences – 4 |
|-------|--------------------------------------------------|
|       | Approche historienne des arts; Histoire, archéologie; Études religieuses  
Historian approach of arts; History, archaeology; Religious studies |
| FNRS_30 | Musicologie et histoire de la musique  
Musicology and history of music |
| FNRS_31 | Histoire de l'art et de l'architecture  
History of art and architecture |
| SH5_7 | Musées, expositions, conservation et restauration  
Museums, exhibitions, conservation and restoration |
| FNRS_26 | Patrimoine culturel  
Cultural heritage |
| SH5_12 | Modélisation computationnelle et digitalisation de la sphère culturelle  
Computational modelling and digitalisation in the cultural sphere |
| SH6_1 | Historiographie, théories et méthodes en histoire, y compris les analyses de données digitales  
Historiography, theory and methods in history, including the analysis of digital data |
| FNRS_32 | Histoire de l'archéologie, archéologie sociale  
History of archaeology, social archaeology |
| SH6_3 | Archéologie générale, archéométrie, archéologie du paysage  
General archaeology, archaeometry, landscape archaeology |
| SH6_4 | Préhistoire, paléoanthropologie, paléodémographie, protohistoire, bioarchéologie  
Prehistory, palaeoanthropology, palaeodemography, protohistory, bioarchaeology |
| SH6_5 | Paléographie et codicologie  
Palaepgraphy and codicology |
| SH6_6 | Histoire ancienne  
Ancient history |
| SH6_7 | Histoire médiévale  
Medieval history |
| SH6_8 | Début de la période moderne  
Early modern history |
| SH6_9 | Histoire moderne et contemporaine  
Modern and contemporary history |
| SH6_10 | Histoire coloniale et postcoloniale  
Colonial and post-colonial history |
| SH6_11 | Histoire mondiale, histoire transnationale, histoire comparée, histoires enchevêtrees  
Global history, transnational history, comparative history, entangled histories |
| SH6_12 | Histoire sociale et économique  
Social and economic history |
| SH6_13 | Histoire du genre, histoire culturelle, histoire des identités et mémoires collectives, histoire des religions  
Gender history, cultural history, history of collective identities and memories, history of religions |
| SH6_14 | Histoire des idées, histoire intellectuelle, histoire de la pensée économique  
History of ideas, intellectual history, history of economic thought |
| SH6_15 | Histoire des sciences, de la médecine et des technologies  
History of science, medicine and technologies |
| FNRS_33 | Numismatique et épigraphie  
Numismatics and epigraphy |
| FNRS_34 | Histoire environnementale  
Environmental history |
| FNRS_35 | Démographie historique  
Demographic history |
| FNRS_36 | Sciences des religions, laïcité, franc-maçonnerie  
Religious sciences, humanism or secularism, freemasonry |
| IDR_1 | Études de genre  
Gender studies |
| IDR_2 | Grands volumes de données (big data)  
Big data |
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<th>SHS-5</th>
<th>Sciences Humaines et sociales – 5</th>
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<td>Human and Social Sciences – 5</td>
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<tr>
<td>Économie; Finance, gestion; Droit; Géographie économique, démographie, santé, sciences de la durabilité, aménagement du territoire, analyses spatiales</td>
<td>Economics; Finance, management; Law; Economic geography, demography, health, sustainability science, spatial analyses</td>
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<td>SH1_1</td>
<td>Économie; Finance, gestion; Droit; Géographie économique, démographie, santé, sciences de la durabilité, aménagement du territoire, analyses spatiales</td>
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<td>SH1_2</td>
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<td>Commerce international; gestion internationale; business international; économie spatiale international trade; international management; international business; spatial economics</td>
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<td>SH1_3</td>
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<td>SH1_5</td>
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<td>Finance d'entreprise; intermédiation bancaire et financière; comptabilité; audit; assurances</td>
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<td>Économétrie</td>
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<td>FNRS_39</td>
<td>Décisions de consommation</td>
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<tr>
<td>FNRS_49</td>
<td>Droit des nouvelles technologies et de l'intelligence artificielle</td>
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<td>SH7_1</td>
<td>Géographie humaine, économique et sociale</td>
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<td>Migration</td>
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<td>Dynamique des populations: ménages, familles et fertilité</td>
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<td>SH7_4</td>
<td>Aspects sociaux de la santé, du vieillissement et de la société</td>
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<td>SH7_6</td>
<td>Changement environnemental et climatique, impact sociétal et politique sociétale</td>
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<tr>
<td>SH7_7</td>
<td>Villes; études urbaines, régionales et rurales</td>
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<td>SH7_8</td>
<td>Occupation et aménagement du territoire</td>
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<td>SH7_9</td>
<td>Énergies, transports et mobilité</td>
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<td>SH7_10</td>
<td>SIG; analyses spatiales; grands volumes de données (big data) en études géographiques</td>
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<tr>
<td>FNRS_2</td>
<td>Intégration européenne</td>
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<tr>
<td>IDR_1</td>
<td>Études de genre</td>
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<tr>
<td>IDR_2</td>
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</table>
| PE3_1 | Structure des solides, croissance et caractérisation de matériaux  
Structure of solids, material growth and characterisation |
| PE3_2 | Propriétés mécaniques et acoustiques de la matière condensée, dynamique réticulaire  
Mechanical and acoustical properties of condensed matter, lattice dynamics |
| PE3_3 | Propriétés de transport de la matière condensée  
Transport properties of condensed matter |
| PE3_4 | Propriétés électroniques des matériaux, surfaces, interfaces, nanostructures  
Electronic properties of materials, surfaces, interfaces, nanostructures |
| PE3_5 | Propriétés physiques de semi-conducteurs et isolants  
Physical properties of semiconductors and insulators |
| PE3_6 | Phénomènes quantiques macroscopiques, ex : supraconduction, superfluidité, effet Hall quantique  
Macroscopic quantum phenomena, e.g. superconductivity, superfluidity, quantum Hall effect |
| PE3_7 | Spintronique  
Spintronics |
| PE3_8 | Magnétisme et systèmes fortement corrélés  
Magnetism and strongly correlated systems |
| PE3_9 | Interactions rayonnement - matière condensée (photons, électrons, etc.)  
Condensed matter – beam interactions (photons, electrons, etc.) |
| PE3_10 | Nanophysique, ex : nanélectronique, nanophotonique, nanomagnétisme, nanoélectromécanique  
Nanophysics, e.g. nanoelectronics, nanophotonics, nanomagnetism, nanoelectromechanics |
| PE3_11 | Physique quantique mésoscopique et technologies quantiques à l'état solide  
Mesoscopic quantum physics and solid-state quantum technologies |
| PE3_12 | Électronique moléculaire  
Molecular electronics |
| PE3_13 | Structure et dynamique de systèmes désordonnés, ex : matière molle (gels, colloïdes, cristaux liquides), matière granulaire, liquides, verres, défauts  
Structure and dynamics of disordered systems, e.g. soft matter (gels, colloids, liquid crystals), granular matter, liquids, glasses, defects |
| PE3_14 | Dynamique des fluides (physique)  
Fluid dynamics (physics) |
| PE3_15 | Physique statistique : changements de phase, systèmes condensés, modèles de systèmes complexes, applications interdisciplinaires  
Statistical physics: phase transitions, condensed matter systems, models of complex systems, interdisciplinary applications |
| PE3_16 | Physique des systèmes biologiques  
Physics of biological systems |
| FNRS_50 | Propriétés thermiques de la matière condensée  
Thermal properties of condensed matter |
| PE4_1 | Chimie physique  
Physical chemistry |
| PE4_2 | Techniques spectroscopiques et spectrométriques  
Spectroscopic and spectrometric techniques |
| PE4_3 | Structure et architecture moléculaires  
Molecular architecture and Structure |
| PE4_4 | Sciences des surfaces et nanostructures  
Surface science and nanostructures |
| PE4_5 | Chimie analytique  
Analytical chemistry |
| PE4_6 | Physico-chimie  
      | Chemical physics |
| PE4_7 | Instrumentation de chimie  
      | Chemical instrumentation |
| PE4_8 | Électrochimie, électrodialyse, microfluidique, capteurs  
      | Electrochemistry, electrodialysis, microfluidics, sensors |
| PE4_9 | Développement de méthodes en chimie  
      | Method development in chemistry |
| PE4_10 | Catalyse hétérogène  
      | Heterogeneous catalysis |
| PE4_11 | Chimie physique des systèmes biologiques  
      | Physical chemistry of biological systems |
| PE4_12 | Réactions chimiques : mécanismes, dynamique, cinétique et réactions catalytiques  
      | Chemical reactions: mechanisms, dynamics, kinetics and catalytic reactions |
| PE4_13 | Chimie théorique et computationnelle  
      | Theoretical and computational chemistry |
| PE4_14 | Radiochimie et chimie nucléaire  
      | Radiation and Nuclear chemistry |
| PE4_15 | Photochimie  
      | Photochemistry |
| PE4_16 | Corrosion  
      | Corrosion |
| PE4_17 | Techniques de caractérisation des matériaux  
      | Characterisation methods of materials |
| PE4_18 | Chimie environnementale  
      | Environment chemistry |
| FNRS_51 | Aspects physiques du calcul quantique  
      | Physical aspects of quantum computing |
| PE5_1 | Propriétés structurales des matériaux  
      | Structural properties of materials |
| PE5_2 | Chimie des matériaux solides  
      | Solid state materials chemistry |
| PE5_3 | Modifications de surface  
      | Surface modification |
| PE5_4 | Couches minces  
      | Thin films |
| PE5_5 | Liquides ioniques  
      | Ionic liquids |
| PE5_6 | Nouveaux matériaux : oxydes, alliages, composites, hybrides organiques-inorganiques, nanoparticules  
      | New materials: oxides, alloys, composite, organic-inorganic hybrid, nanoparticles |
| PE5_7 | Synthèse de biomatériaux  
      | Biomaterials synthesis |
| PE5_8 | Synthèse de matériaux intelligents – matériaux auto-assemblés  
      | Intelligent materials synthesis – self assembled materials |
| PE5_9 | Chimie de coordination  
      | Coordination chemistry |
| PE5_10 | Chimie des colloïdes  
      | Colloid chemistry |
| PE5_11 | Chimie biologique et biologie chimique  
      | Biological chemistry and chemical biology |
| PE5_12 | Chimie de la matière condensée  
      | Chemistry of condensed matter |
| PE5_13 | Catalyse homogène  
      | Homogeneous catalysis |
| PE5_14 | Chimie macromoléculaire  
      | Macromolecular chemistry |
| PE5_15 | Chimie des polymères  
      | Polymer chemistry |
| PE5_16 | Chimie supramoléculaire  
      | Supramolecular chemistry |
| PE5_17 | Chimie organique  
<pre><code>  | Organic chemistry |
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<td>PE5_18</td>
<td>Chimie médicinale</td>
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<td>FNRS_52</td>
<td>Matériaux pour l'architecture</td>
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<td>Materials for architecture</td>
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<tr>
<td>FNRS_53</td>
<td>Matériaux pour la dentisterie</td>
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<td>Materials for dentistry</td>
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<tr>
<td>FNRS_54</td>
<td>Conception et caractérisation de métamatériaux</td>
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<td>Design and characterisation of metamaterials</td>
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<td>IDR_2</td>
<td>Grands volumes de données (big data)</td>
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### SEN-2

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<tr>
<th>Série</th>
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<tr>
<td>PE1_1</td>
<td>Logique et ses fondements</td>
</tr>
<tr>
<td>PE1_2</td>
<td>Algèbre</td>
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<tr>
<td>PE1_3</td>
<td>Théorie des nombres</td>
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<td>PE1_4</td>
<td>Géométrie algébrique et complexe</td>
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<td>PE1_5</td>
<td>Groupes de Lie, algèbre de Lie</td>
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<td>PE1_6</td>
<td>Géométrie et analyse globale</td>
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<td>PE1_7</td>
<td>Topologie</td>
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<tr>
<td>PE1_8</td>
<td>Analyse</td>
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<tr>
<td>PE1_9</td>
<td>Opérateurs algébriques et analyse fonctionnelle</td>
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<tr>
<td>PE1_10</td>
<td>EDO et systèmes dynamiques</td>
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<tr>
<td>PE1_11</td>
<td>Aspects théoriques des équations aux dérivées partielles</td>
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<td>PE1_12</td>
<td>Physique mathématique</td>
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<td>PE1_13</td>
<td>Probabilités</td>
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<tr>
<td>PE1_14</td>
<td>Statistiques mathématiques</td>
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<tr>
<td>PE1_15</td>
<td>Méthodologie et modélisation statistique générique</td>
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<tr>
<td>PE1_16</td>
<td>Mathématiques discrètes et combinatoire</td>
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<tr>
<td>PE1_17</td>
<td>Aspects mathématiques des sciences informatiques</td>
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<tr>
<td>PE1_18</td>
<td>Analyse numérique</td>
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<tr>
<td>PE1_19</td>
<td>Calcul scientifique et traitement de données</td>
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<tr>
<td>PE1_21</td>
<td>Application des mathématiques en sciences</td>
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<td>PE1_22</td>
<td>Application des mathématiques dans l'industrie et la société</td>
</tr>
<tr>
<td>FNRS_55</td>
<td>Optimisation mathématique et recherche opérationnelle</td>
</tr>
<tr>
<td>FNRS_56</td>
<td>Théorie du contrôle</td>
</tr>
<tr>
<td>PE2_1</td>
<td>Théorie des interactions fondamentales</td>
</tr>
</tbody>
</table>

**Tous les domaines des mathématiques, pures et appliquées, plus les fondements mathématiques des sciences informatiques, la physique mathématique et les statistiques; Physique des particules, nucléaire, des plasmas, atomique, moléculaire, des gaz, optique; Astro-physique/-chimie/-biologie, système solaire, systèmes planétaires, astronomie stellaire, galactique et extra-galactique, cosmologie, sciences de l'espace, instrumentation et données astronomiques**

**All areas of mathematics, pure and applied, plus mathematical foundations of computer science, mathematical physics and statistics; Particle, nuclear, plasma, atomic, molecular, gas, and optical physics; Astro-physics/-chemistry/-biology, solar system, planetary systems, stellar, galactic and extragalactic astronomy, cosmology, space sciences, astronomical instrumentation and data**
| PE2_2 | Phénoménologie des interactions fondamentales  
Phenomenology of fundamental interactions |
| PE2_3 | Physique des particules expérimentale avec accélérateurs  
Experimental particle physics with accelerators |
| PE2_4 | Physique des particules expérimentale sans accélérateurs  
Experimental particle physics without accelerators |
| PE2_5 | Physique classique et quantique des interactions gravitationnelles  
Classical and quantum physics of gravitational interactions |
| PE2_6 | Physique nucléaire, hadronique et des ions lourds  
Nuclear, hadron and heavy ion physics |
| PE2_7 | Astrophysique nucléaire et des particules  
Nuclear and particle astrophysics |
| PE2_8 | Physique des gaz et des plasmas  
Gas and plasma physics |
| PE2_9 | Électromagnétisme  
Electromagnetism |
| PE2_10 | Physique atomique et moléculaire  
Atomic, molecular physics |
| PE2_11 | Atomes et molécules ultra-froids  
Ultra-cold atoms and molecules |
| PE2_12 | Optique, optique non-linéaire et nano-optique  
Optics, non-linear optics and nano-optics |
| PE2_13 | Optique quantique et information quantique  
Quantum optics and quantum information |
| PE2_14 | Lasers, lasers ultra-courts et physique des lasers  
Lasers, ultra-short lasers and laser physics |
| PE2_15 | Thermodynamique  
Thermodynamics |
| PE2_16 | Physique non-linéaire  
Non-linear physics |
| PE2_17 | Métrie et mesures  
Metrology and measurement |
| PE2_18 | Mécanique statistique à l'équilibre et hors équilibre: états stationnaires et dynamique  
Equilibrium and non-equilibrium statistical mechanics: steady states and dynamics |
| FNRS_57 | Physique théorique des particules  
Theoretical particle physics |
| PE9_1 | Physique solaire – le Soleil et l'héliosphère  
Solar physics – the Sun and the heliosphere |
| PE9_2 | Science du système solaire  
Solar system science |
| PE9_3 | Science exoplanétaire, formation et caractérisation des planètes extrasolaires  
Exoplanetary science, formation and characterization of extrasolar planets |
| PE9_4 | Astrobiologie  
Astrobiology |
| PE9_5 | Milieu interstellaire et formation des étoiles  
Interstellar medium and star formation |
| PE9_6 | Etoiles – physique stellaire, systèmes stellaires  
Stars – stellar physics, stellar systems |
| PE9_7 | La Voie lactée  
The Milky Way |
| PE9_8 | Galaxies – formation, évolution, amas  
Galaxies – formation, evolution, clusters |
| PE9_9 | Cosmologie et structure à grande échelle, matière noire, énergie noire  
Cosmology and large-scale structure, dark matter, dark energy |
| PE9_10 | Astrophysique relativiste et objets compacts  
Relativistic astrophysics and compact objects |
| PE9_11 | Astronomie des ondes gravitationnelles  
Gravitational wave astronomy |
| PE9_12 | Astronomie des hautes énergies et des particules  
High-energy and particle astronomy |
| PE9_13 | Instrumentation et données astronomiques, ex : télescopes, détecteurs, techniques, archives, analyses  
Astronomical instrumentation and data, e.g. telescopes, detectors, techniques, archives, analyses |
<table>
<thead>
<tr>
<th>IDR_2</th>
<th>Grands volumes de données (big data)</th>
</tr>
</thead>
<tbody>
<tr>
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<td>Big data</td>
</tr>
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</table>
### Exact and Natural Sciences – 3

**Informatics and information systems, computer science, scientific computing, intelligent systems; Electrical, electronic, communication, optical and systems engineering; Product and process design, chemical, civil, environmental, mechanical, vehicle engineering, energy processes and relevant computational methods; Advanced materials development: performance enhancement, modelling, large-scale preparation, modification, tailoring, optimisation, novel and combined use of materials, etc.**

<table>
<thead>
<tr>
<th>Code</th>
<th>Description</th>
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<tbody>
<tr>
<td>PE6_1</td>
<td>Architecture informatique, systèmes embarqués, systèmes d'exploitation</td>
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<td>Computer architecture, embedded systems, operating systems</td>
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<td>PE6_2</td>
<td>Systèmes distribués, informatique parallèle, réseaux de capteurs, systèmes cyber-physiques</td>
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<tr>
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<td>Distributed systems, parallel computing, sensor networks, cyber-physical systems</td>
</tr>
<tr>
<td>PE6_3</td>
<td>Génie logiciel, langages et systèmes de programmation Software engineering, programming languages and systems</td>
</tr>
<tr>
<td>PE6_4</td>
<td>Informatique théorique, méthodes formelles, automates</td>
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<td>Theoretical computer science, formal methods, automata</td>
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<tr>
<td>PE6_5</td>
<td>Sécurité, vie privée, cryptologie, cryptographie quantique</td>
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<td>Security, privacy, cryptology, quantum cryptography</td>
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<tr>
<td>PE6_6</td>
<td>Algorithmes et complexité, algorithmes distribués, parallèles et de réseaux, théorie algorithmique des jeux</td>
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<td>Algorithms and complexity, distributed, parallel and network algorithms, algorithmic game theory</td>
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<td>PE6_7</td>
<td>Intelligence artificielle, systèmes intelligents, traitement du langage naturel</td>
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<td>Artificial intelligence, intelligent systems, natural language processing</td>
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<tr>
<td>PE6_8</td>
<td>Infographie, vision par ordinateur, multimédia, jeux sur ordinateur</td>
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<td>Computer graphics, computer vision, multimedia, computer games</td>
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<tr>
<td>PE6_9</td>
<td>Interaction et interface homme-ordinateur, visualisation</td>
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<tr>
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<td>Human computer interaction and interface, visualisation</td>
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<td>PE6_10</td>
<td>Web et systèmes d'information, systèmes de gestion de données, recherche d'informations et bibliothèques numériques, fusion de données</td>
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<td>Web and information systems, data management systems, information retrieval and digital libraries, data fusion</td>
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<tr>
<td>PE6_11</td>
<td>Apprentissage automatique, traitement statistique des données et applications utilisant le traitement du signal (ex. parole, images, vidéos)</td>
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<td>Machine learning, statistical data processing and applications using signal processing (e.g. speech, image, video)</td>
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<tr>
<td>PE6_12</td>
<td>Informatique scientifique, simulation et outils de modélisation</td>
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<tr>
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<td>Scientific computing, simulation andmodelling tools</td>
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<tr>
<td>PE6_13</td>
<td>Bioinformatique, informatique bio-inspirée, et informatique naturelle</td>
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<tr>
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<td>Bioinformatics, bio-inspired computing, and natural computing</td>
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<tr>
<td>PE6_14</td>
<td>Informatique quantique (méthodes formelles, algorithmes et autres aspects de l'informatique)</td>
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<tr>
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<td>Quantum computing (formal methods, algorithms and other computer science aspects)</td>
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<tr>
<td>FNRS_58</td>
<td>Apprentissage automatique pour la prise de décision</td>
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<tr>
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<td>Machine learning for decision making</td>
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<td>FNRS_59</td>
<td>Apprentissage profond</td>
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<td>Deep learning</td>
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<td>PE7_1</td>
<td>Commande des procédés (automatique)</td>
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<td>Control engineering</td>
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<td>PE7_2</td>
<td>Ingénierie électrique : composants et/ou systèmes de puissance</td>
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<td>Electrical engineering: power components and/or systems</td>
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<td>PE7_3</td>
<td>Simulation et modélisation pour l'ingénierie</td>
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<td>Simulation engineering and modelling</td>
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<td>PE7_4</td>
<td>Ingénierie des (micro- et nano-) systèmes (Micro- and nano-) systems engineering</td>
</tr>
</tbody>
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Fonds de la Recherche Scientifique – FNRS | Commissions scientifiques

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<p>| PE7_5 | (Micro- et nano-) électronique, optoélectronique et composants photoniques (Micro- and nano-) electronic, optoelectronic and photonic components |
| PE7_6 | Systèmes de communication, technologie sans fil, technologie des hautes fréquences Communication systems, wireless technology, high-frequency technology |
| PE7_7 | Traitement du signal Signal processing |
| PE7_8 | Réseaux, ex : réseaux et nœuds de communication, Internet des Objets, réseaux de capteurs, réseaux de robots Networks, e.g. communication networks and nodes, Internet of Things, sensor networks, networks of robots |
| PE7_9 | Interfaces homme-machine Man-machine interfaces |
| PE7_10 | Robotique Robotics |
| PE7_11 | Composants et systèmes pour des applications (par ex en : médecine, biologie, environnement) Components and systems for applications (in e.g. medicine, biology, environment) |
| PE7_12 | Production et/ou distribution d'énergie électrique, et applications Electrical energy production, distribution, applications |
| PE8_1 | Ingénierie aérospatiale Aerospace engineering |
| PE8_2 | Génie chimique, chimie technique Chemical engineering, technical chemistry |
| PE8_3 | Génie civil, architecture, construction offshore, construction légère, géotechnique Civil engineering, architecture, offshore construction, lightweight construction, geotechnics |
| PE8_4 | Ingénierie computationnelle Computational engineering |
| PE8_5 | Mécanique des fluides Fluid mechanics |
| PE8_6 | Ingénierie des procédés énergétiques Energy processes engineering |
| PE8_7 | Ingénierie mécanique Mechanical engineering |
| PE8_8 | Ingénierie de propulsion, ex : moteurs hydrauliques, turbo, à pistons, hybrides Propulsion engineering, e.g. hydraulic, turbo, piston, hybrid engines |
| PE8_9 | Technologie de la production, ingénierie des procédés Production technology, process engineering |
| PE8_10 | Ingénierie de fabrication et design industriel Manufacturing engineering and industrial design |
| PE8_11 | Génie de l'environnement, ex : conception durable, traitement des déchets et de l'eau, recyclage, régénération et récupération de composés, capture et stockage du carbone Environmental engineering, e.g. sustainable design, waste and water treatment, recycling, regeneration or recovery of compounds, carbon capture &amp; storage |
| PE8_12 | Ingénierie navale/marine Naval/marine engineering |
| PE8_13 | Bioingénierie industrielle Industrial bioengineering |
| PE8_14 | Ingénierie automobile et ferroviaire; ingénierie des transports multi-/inter-modal Automotive and rail engineering; multi-/inter-modal transport engineering |
| PE11_1 | Ingénierie des biomatériaux, matériaux biomimétiques, bioinspirés, et bioactifs Engineering of biomaterials, biomimetic, bioinspired and bio-enabled materials |
| PE11_2 | Ingénierie des métaux et alliages Engineering of metals and alloys |
| PE11_3 | Ingénierie des céramiques et verres Engineering of ceramics and glasses |
| PE11_4 | Ingénierie des polymères et plastiques Engineering of polymers and plastics |
| PE11_5 | Ingénierie des composites et matériaux hybrides Engineering of composites and hybrid materials |
| PE11_6 | Ingénierie des matériaux en carbone Engineering of carbon materials |
| PE11_7 | Ingénierie des oxydes métalliques Engineering of metal oxides |</p>
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<tr>
<th>Code</th>
<th>Ingénierie des matériaux alternatifs établis ou émergents</th>
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<td>PE11_8</td>
<td>Engineering of alternative established or emergent materials</td>
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<td>PE11_9</td>
<td>Ingénierie des nanomatériaux, ex : nanoparticules, matériaux nanoporeux, nanomatériaux 1D et 2D</td>
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<td>Nanomaterials engineering, e.g. nanoparticles, nanoporous materials, 1D &amp; 2D nanomaterials</td>
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<td>PE11_10</td>
<td>Ingénierie des matériaux mous, ex : gels, mousses, colloïdes</td>
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<td>Soft materials engineering, e.g. gels, foams, colloids</td>
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<td>PE11_11</td>
<td>Ingénierie des matériaux poreux, ex : réseaux organiques covalents, métallo-organiques, aromatiques poreux</td>
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<td>Porous materials engineering, e.g. covalent-organic, metal-organic, porous aromatic frameworks</td>
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<td>PE11_12</td>
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<td>Semi-conducting and magnetic materials engineering</td>
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<td>PE11_13</td>
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<td>PE11_14</td>
<td>Méthodes de calcul pour l’ingénierie des matériaux</td>
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<td>Computational methods for materials engineering</td>
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| **SEN-4** | Sciences Exactes et Naturelles – 4  
Exact and Natural Sciences – 4 |
| **PE10_1** | Chimie de l'atmosphère, composition de l'atmosphère, pollution de l'air  
Atmospheric chemistry, atmospheric composition, air pollution |
| **PE10_2** | Météorologie, physique atmosphérique, dynamique de l'atmosphère  
Meteorology, atmospheric physics and dynamics |
| **PE10_3** | Climatologie et changement climatique  
Climatology and climate change |
| **PE10_4** | Écologie terrestre, modifications de l'occupation du sol  
Terrestrial ecology, land cover change |
| **PE10_5** | Géologie, tectonique, volcanologie  
Geology, tectonics, volcanology |
| **PE10_6** | Paléoclimatologie, paléoécologie  
Palaeoclimatology, palaeoecology |
| **PE10_7** | Physique de l'intérieur de la terre, sismologie, géodynamique  
Physics of earth's interior, seismology, geodynamics |
| **PE10_8** | Océanographie (physique, chimique, biologique, géologique)  
Oceanography (physical, chemical, biological, geological) |
| **PE10_9** | Biogéochimie, cycles biogéochimiques, chimie environnementale  
Biogeochemistry, biogeochemical cycles, environmental chemistry |
| **PE10_10** | Minéralogie, pétrologie, pétrologie des roches ignées, pétrologie des roches métamorphiques  
Mineralogy, petrology, igneous petrology, metamorphic petrology |
| **PE10_11** | Géochimie, cosmochimie, chimie des cristaux, géochimie des isotopes, thermodynamique  
Geochemistry, cosmochemistry, crystal chemistry, isotope geochemistry, thermodynamics |
| **PE10_12** | Sédimentologie, sciences du sol, paléontologie, évolution de la terre  
Sedimentology, soil science, palaeontology, earth evolution |
| **PE10_13** | Géographie physique, géomorphologie  
Physical geography, geomorphology |
| **PE10_14** | Observations de la terre depuis l'espace/télédétection  
Earth observations from space/remote sensing |
| **PE10_15** | Géomagnétisme, paléomagnétisme  
Geomagnetism, palaeomagnetism |
| **PE10_16** | Ozone, haute atmosphère, ionosphère  
Ozone, upper atmosphere, ionosphere |
| **PE10_17** | Hydrologie, hydrogéologie, génie géologique et géologie environnementale, pollution de l'eau et du sol  
Hydrology, hydrogeology, engineering and environmental geology, water and soil pollution |
| **PE10_18** | Cryosphère, dynamique de la couverture neigeeuse et glaciaire, glace de mer, permafrosts et calottes glaciaires  
Cryosphere, dynamics of snow and ice cover, sea ice, permafrosts and ice sheets |
| **PE10_19** | Géologie et géophysique planétaire  
Planetary geology and geophysics |
| **PE10_20** | Risques géologiques  
Geohazards |
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<th>Description</th>
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<tr>
<td>PE10_21</td>
<td>Modélisation du système terrestre et interactions (Earth system modelling and interactions)</td>
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<tr>
<td>LS8_1</td>
<td>Écosystème et écologie des communautés, macroécoologie (Ecosystem and community ecology, macroecology)</td>
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<tr>
<td>LS8_2</td>
<td>Biodiversité (Biodiversity)</td>
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<tr>
<td>LS8_3</td>
<td>Biologie de la conservation (Conservation biology)</td>
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<tr>
<td>LS8_4</td>
<td>Biologie des populations, dynamique des populations, génétique des populations (Population biology, population dynamics, population genetics)</td>
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<td>LS8_5</td>
<td>Aspects biologiques du changement environnemental, incluant le changement climatique (Biological aspects of environmental change, including climate change)</td>
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<tr>
<td>LS8_6</td>
<td>Écologie de l'évolution (Evolutionary ecology)</td>
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<tr>
<td>LS8_7</td>
<td>Génétique de l'évolution (Evolutionary genetics)</td>
</tr>
<tr>
<td>LS8_8</td>
<td>Phylogénétique, systématique, biologie comparative (Phylogenetics, systematics, comparative biology)</td>
</tr>
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<td>LS8_9</td>
<td>Macroévolution et paléobiologie (Macroevolution and paleobiology)</td>
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<td>LS8_10</td>
<td>Écologie et évolution des interactions entre espèces (Ecology and evolution of species interactions)</td>
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<td>LS8_11</td>
<td>Écologie et évolution comportementale (Behavioural ecology and evolution)</td>
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<td>LS8_12</td>
<td>Écologie et évolution microbienne (Microbial ecology and evolution)</td>
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<tr>
<td>LS8_13</td>
<td>Biologie et écologie marine (Marine biology and ecology)</td>
</tr>
<tr>
<td>LS8_14</td>
<td>Écophysiologie, des organismes aux écosystèmes (Ecophysiology, from organisms to ecosystems)</td>
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<tr>
<td>LS8_15</td>
<td>Développements théoriques et modélisation en biologie environnementale, écologie, et évolution (Theoretical developments and modelling in environmental biology, ecology, and evolution)</td>
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<td>FNRS_60</td>
<td>Biogéographie (Biogeography)</td>
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<td>LS9_1</td>
<td>Bioingénierie pour la biologie de synthèse et la biologie chimique (Bioengineering for synthetic and chemical biology)</td>
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<td>LS9_2</td>
<td>Génétique appliquée, modification génique et organismes transgéniques (Applied genetics, gene editing and transgenic organisms)</td>
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<td>LS9_3</td>
<td>Bioingénierie de cellules, tissus, organes et organismes (Bioengineering of cells, tissues, organs and organisms)</td>
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<td>LS9_4</td>
<td>Biotechnologie et bioingénierie microbienne (Microbial biotechnology and bioengineering)</td>
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<td>LS9_5</td>
<td>Biotechnologie et bioingénierie des aliments (Food biotechnology and bioengineering)</td>
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<td>LS9_6</td>
<td>Biotechnologie et bioingénierie marine (Marine biotechnology and bioengineering)</td>
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<tr>
<td>LS9_7</td>
<td>Biotechnologie et bioingénierie environnementale (Environmental biotechnology and bioengineering)</td>
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<td>LS9_8</td>
<td>Sciences végétales appliquées, sélection végétale, agroécologie et biologie des sols (Applied plant sciences, plant breeding, agroecology and soil biology)</td>
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<td>LS9_9</td>
<td>Pathologie végétale et résistance aux nuisibles (Plant pathology and pest resistance)</td>
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<tr>
<td>LS9_10</td>
<td>Sciences vétérinaires et animales appliquées (Veterinary and applied animal sciences)</td>
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<td>LS9_11</td>
<td>Production et utilisation de biomasse, biocarburants (Biomass production and utilisation, biofuels)</td>
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<td>LS9_12</td>
<td>Ecotoxicologie, risques biologiques et biosécurité (Ecotoxicology, biohazards and biosafety)</td>
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<td>FNRS_61</td>
<td>Agriculture (production de récoltes, biologie du sol et culture, biologie végétale appliquée, zootechnie, laiteries, élevage du bétail) (Agriculture (crop production, soil biology and cultivation, applied plant biology, animal husbandry, dairying, livestock raising))</td>
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| FNRS_62 | Sylviculture  
Forestry |
|--------|----------------|
| FNRS_63 | Physiologie et développement des plantes  
Plant physiology and development |
| IDR_2  | Grands volumes de données (big data)  
Big data |
| LS1_1 | Complexes macromoléculaires, en ce compris les interactions impliquant des acides nucléiques, des protéines, des lipides et des glucides |
| LS1_2 | Biochimie |
| LS1_3 | Biologie de l'ADN et de l'ARN |
| LS1_4 | Biologie des protéines |
| LS1_5 | Biologie des lipides |
| LS1_6 | Glycobiologie |
| LS1_7 | Biophysique moléculaire, biomécanique, bioénergétique |
| LS1_8 | Biologie structurale |
| LS1_9 | Mécanismes moléculaires des processus de signalisation |
| LS1_10 | Biologie synthétique |
| LS1_11 | Biologie chimique |
| LS1_12 | Conception de protéines |
| LS1_13 | Recherche translationnelle précoce et conception de médicaments |
| LS1_14 | Méthodes innovantes et modélisation en biologie moléculaire, structurale et synthétique |

| FNRS_64 | Biogenèse d'acides nucléiques |
|FNRS_65 | Réparation d'acides nucléiques |

| LS2_1 | Génétique |
| LS2_2 | Edition de gènes |
| LS2_3 | Épigénétique |
| LS2_4 | Régulation génétique |

**SCIENCES DE LA VIE ET DE LA SANTÉ**  
**LIFE AND HEALTH SCIENCES**

**SVS-1**  
Sciences de la Vie et de la Santé – 1  
Life and Health Sciences – 1

- Biologie moléculaire, biochimie, biologie structurale, biophysique moléculaire, biologie synthétique et chimique, conception de médicaments, méthodes innovantes et modélisation; Génétique, épigénétique, génomique et autres études 'omics', bioinformatique, biologie des systèmes, maladies génétiques, édition de gènes, méthodes innovantes et modélisation, 'omics' pour la médecine personnalisée; Structure et fonction de la cellule, communication cellule-cellule, embryogenèse, différenciation tissulaire, organogenèse, croissance, développement, évolution du développement, organoïdes, cellules souches, régénération, approches thérapeutiques

- Molecular biology, biochemistry, structural biology, molecular biophysics, synthetic and chemical biology, drug design, innovative methods and modelling; Genetics, epigenetics, genomics and other 'omics' studies, bioinformatics, systems biology, genetic diseases, gene editing, innovative methods and modelling, 'omics' for personalised medicine; Structure and function of the cell, cell-cell communication, embryogenesis, tissue differentiation, organogenesis, growth, development, evolution of development, organoids, stem cells, regeneration, therapeutic approaches
| LS2_5 | Génomomique  
Genomics |
| LS2_6 | Metagénomomique  
Metagenomics |
| LS2_7 | Transcriptomoique  
Transcriptomics |
| LS2_8 | Protéomomique  
Proteomics |
| LS2_9 | Métabolomomique  
Metabolomics |
| LS2_10 | Glycomique/Lipidomomique  
Glycomics/Lipidomics |
| LS2_11 | Bioinformatique et biologie computationnelle  
Bioinformatics and computational biology |
| LS2_12 | Biostatististique  
Biostatistics |
| LS2_13 | Biologie des systèmes  
Systems biology |
| LS2_14 | Maladies génétiques  
Genetic diseases |
| LS2_15 | Biologie intégrative pour la médecine personnalisée  
Integrative biology for personalised medicine |
| LS2_16 | Méthodes innovantes et modélisation en biologie intégrative  
Innovative methods and modelling in integrative biology |
| FNRS_66 | Epitranscriptomomique  
Epitranscriptomics |
| FNRS_67 | Outils de diagnostique génétique, pharmacogénétique  
Genetic diagnostic tools, pharmacogenetics |
| LS3_1 | Cycle cellulaire, division et croissance  
Cell cycle, division and growth |
| LS3_2 | Senescence cellulaire, mort cellulaire, autophagie, vieillissement cellulaire  
Cell senescence, cell death, autophagy, cell ageing |
| LS3_3 | Comportement cellulaire, en ce compris le contrôle de la forme cellulaire, migration cellulaire  
Cell behaviour, including control of cell shape, cell migration |
| LS3_4 | Jonctions cellulaires, adhésion cellulaire, matrice extracellulaire, communication cellulaire  
Cell junctions, cell adhesion, the extracellular matrix, cell communication |
| LS3_5 | Signalisation (inter/intra)cellulaire et transmission des signaux, biologie des exosomes  
Cell signalling and signal transduction, exosome biology |
| LS3_6 | Biologie et trafic des organites  
Organelle biology and trafficking |
| LS3_7 | Mécanobiologie des cellules, tissus et organes  
Mechanobiology of cells, tissues and organs |
| LS3_8 | Embryogénèse, plan d'organisation, morphogénèse  
Embryogenesis, pattern formation, morphogenesis |
| LS3_9 | Différentiation cellulaire, formation des tissus et organes  
Cell differentiation, formation of tissues and organs |
| LS3_10 | Génétique du développement  
Developmental genetics |
| LS3_11 | Évolution des stratégies de développement  
Evolution of developmental strategies |
| LS3_12 | Organoides  
Organoids |
| LS3_13 | Cellules souches  
Stem cells |
| LS3_14 | Régénération  
Regeneration |
| LS3_15 | Développement de d'approches thérapeutiques basées sur l'utilisation de cellules pour la régénération tissulaire  
Development of cell-based therapeutic approaches for tissue regeneration |
| LS3_16 | Imagerie fonctionnelle des cellules et tissus  
Functional imaging of cells and tissues |
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<td>LS3_17</td>
<td>Modélisation théorique en biologie cellulaire, du développement et régénérative</td>
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<td>Theoretical modelling in cellular, developmental and regenerative biology</td>
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<td>FNRS_68</td>
<td>Mécanismes de transport moléculaire</td>
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<td>Molecular transport mechanisms</td>
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<td>IDR_2</td>
<td>Grands volumes de données (big data)</td>
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<td></td>
<td>Big data</td>
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<tr>
<td>Code</td>
<td>Description</td>
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</tbody>
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| SVS-2 | Sciences de la Vie et de la Santé – 2  

**Organ and tissue physiology, comparative physiology, physiology of ageing, pathophysiology, interorgan and tissue communication, endocrinology, nutrition, metabolism, interaction with the microbiome, non-communicable diseases including cancer (and except disorders of the nervous system and immunity-related diseases); The immune system, related disorders and their mechanisms, biology of infectious agents and infection, biological basis of prevention and treatment of infectious diseases, innovative immunological tools and approaches, including therapies, veterinary medicine** |
| LS4_1 | Physiologie et physiopathologie des organes et des tissus  

Organ and tissue physiology and pathophysiology |
| LS4_2 | Physiologie comparée  

Comparative physiology |
| LS4_3 | Physiologie du vieillissement  

Physiology of ageing |
| LS4_4 | Endocrinologie  

Endocrinology |
| LS4_5 | Mécanismes non-hormonaux de communication inter-organes et inter-tissus  

Non-hormonal mechanisms of inter-organ and tissue communication |
| LS4_6 | Microbiome et physiologie de l’hôte  

Microbiome and host physiology |
| LS4_7 | Nutrition et physiologie de l’exercice  

Nutrition and exercise physiology |
| LS4_8 | Impact du stress (en compris le stress environnemental) sur la physiologie  

Impact of stress (including environmental stress) on physiology |
| LS4_9 | Métabolisme et troubles du métabolisme, en compris le diabète et l’obésité  

Metabolism and metabolic disorders, including diabetes and obesity |
| LS4_10 | Le système cardiovasculaire et les maladies cardiovasculaires  

The cardiovascular system and cardiovascular diseases |
| LS4_11 | Hématopoïèse et maladies hématologiques  

Haematopoiesis and blood diseases |
| LS4_12 | Cancer  

Cancer |
| LS4_13 | Autres maladies non-transmissibles (à l’exception des troubles du système nerveux et des maladies dysimmunaires)  

Other non-communicable diseases (except disorders of the nervous system and immunity-related diseases) |
| LS6_1 | Immunité innée  

Innate immunity |
| LS6_2 | Immunité adaptative  

Adaptive immunity |
| LS6_3 | Régulation de la réponse immunitaire  

Regulation of the immune response |
| LS6_4 | Maladies immunitaires  

Immune-related diseases |
| LS6_5 | Biologie des agents pathogènes (e.g. bactéries, virus, parasites, champignons)  

Biology of pathogens (e.g. bacteria, viruses, parasites, fungi) |
| LS6_6 | Maladies infectieuses  

Infectious diseases |
| LS6_7 | Mécanismes de l’infection  

Mechanisms of infection |
| LS6_8 | Bases biologiques de la prévention et du traitement de l'infection  
Biological basis of prevention and treatment of infection |
| LS6_9 | Antimicrobiens, résistance antimicrobienne  
Antimicrobials, antimicrobial resistance |
| LS6_10 | Développement de vaccins  
Vaccine development |
| LS6_11 | Outils et approches immunologiques innovants, en ce compris les thérapies  
Innovative immunological tools and approaches, including therapies |
| FNRS_69 | Microbiologie  
Microbiology |
| FNRS_70 | Bactériologie  
Bacteriology |
| FNRS_71 | Virologie  
Virology |
| FNRS_72 | Parasitologie  
Parasitology |
| FNRS_73 | Médecine vétérinaire  
Veterinary medicine |
| IDR_2 | Grands volumes de données (big data)  
Big data |
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<th>Fonds de la Recherche Scientifique – FNRS</th>
<th>Commissions scientifiques</th>
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| SVS-3 Sciences de la Vie et de la Santé – 3  
Life and Health Sciences – 3 |  |
| Développement du système nerveux, homéostasie et vieillissement, physiologie et physiopathologie du système nerveux, neuroscience des systèmes et modélisation, bases biologiques des processus cognitifs et du comportement, troubles neurologiques et mentaux |  |
| Nervous system development, homeostasis and ageing, nervous system function and dysfunction, systems neuroscience and modelling, biological basis of cognitive processes and of behaviour, neurological and mental disorders |  |
| LS5_1 Cellules neuronales  
Neuronal cells |  |
| LS5_2 Cellules gliales et communication neuro-gliale  
Glii cells and neuronal-glial communication |  |
| LS5_3 Développement neuronal et troubles associés  
Neural development and related disorders |  |
| LS5_4 Cellules souches neurales  
Neural stem cells |  |
| LS5_5 Réseaux neuronaux et plasticité neurale  
Neural networks and plasticity |  |
| LS5_6 Biologie neurovasculaire et barrière hématoencéphalique  
Neurovascular biology and blood-brain barrier |  |
| LS5_7 Systèmes sensoriels, sensation et perception, en ce compris la douleur  
Sensory systems, sensation and perception, including pain |  |
| LS5_8 Bases neurales du comportement  
Neural basis of behaviour |  |
| LS5_9 Bases neurales de la cognition  
Neural basis of cognition |  |
| LS5_10 Vieillissement du système nerveux  
Ageing of the nervous system |  |
| LS5_11 Troubles neurologiques et neurodégénératifs  
Neurological and neurodegenerative disorders |  |
| LS5_12 Troubles mentaux  
Mental disorders |  |
| LS5_13 Lésions et traumatismes du système nerveux, accident vasculaire cérébral  
Nervous system injuries and trauma, stroke |  |
| LS5_14 Réparation et régénération du système nerveux  
Repair and regeneration of the nervous system |  |
| LS5_15 Neuroimmunologie, neuroinflammation  
Neuroimmunology, neuroinflammation |  |
| LS5_16 Neurosciences des systèmes et neurosciences computationnelles  
Systems and computational neuroscience |  |
| LS5_17 Imagerie appliquée aux neurosciences  
Imaging in neuroscience |  |
| LS5_18 Méthodes et outils innovants pour les neurosciences  
Innovative methods and tools for neuroscience |  |
| FNRS_74 Neuroendocrinologie  
Neuroendocrinology |  |
| FNRS_75 Neurochimie et neuropharmacologie  
Neurochemistry and neuropharmacology |  |
| IDR_2 Grands volumes de données (big data)  
Big data |  |
| LS7_1 | Imagerie médicale pour la prévention, le diagnostic et la surveillance de maladies |
| LS7_2 | Technologies et outils médicaux (en ce compris outils et biomarqueurs génétiques) pour la prévention, le diagnostic, la surveillance et le traitement de maladies |
| LS7_3 | Nanomédecine |
| LS7_4 | Médecine régénérative |
| LS7_5 | Thérapies génétiques, cellulaires et immunitaires appliquées |
| LS7_6 | Autres interventions médicales thérapeutiques, en ce compris la transplantation |
| LS7_7 | Pharmacologie et toxicologie |
| LS7_8 | Efficacité des interventions, en ce compris la résistance aux thérapies |
| LS7_9 | Santé publique et épidémiologie |
| LS7_10 | Médecine préventive et prognostique |
| LS7_11 | Hygiène publique, médecine du travail |
| LS7_12 | Soins de santé, en ce compris les soins pour la population vieillissante |
| LS7_13 | Soins palliatifs |
| LS7_14 | Médecine digitale, e-médecine, applications médicales de l'intelligence artificielle |
| LS7_15 | Éthique médicale |
| FNRS_76 | Recherche translationnelle |
| FNRS_77 | Gynécologie, obstétrique |
| FNRS_78 | Dentisterie |
| FNRS_79 | Sciences pharmaceutiques |
| FNRS_80 | Conception de médicaments |
| FNRS_81 | Ingénierie et technologie médicales et pharmaceutiques |
| IDR_1 | Études de genre |
| IDR_2 | Grands volumes de données (big data) |
### FORESIGHT

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<td>Sustainable architecture</td>
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| IDR_21 | Énergies  
        | Energies |
|--------|---------|
| IDR_2  | Grands volumes de données (big data)  
        | Big data |