Guide for Applicants

Year 2017
FOREWORD

THE FUND FOR SCIENTIFIC RESEARCH – FNRS ¹
The mission of the FNRS aims at promoting free (fundamental) scientific research within the French-speaking Community of Belgium (CFB)² 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. CALLS FOR PROPOSALS OF THE FNRS

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).

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 to the FNRS through SEMAPHORE, the online submission platform available at the following address https://applications.frs-fnrs.be, is likely to be stored in one or several files. The FNRS will be in charge of those files.

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 to the General Secretary of the FNRS. A public register of automated personal data processing is stored at the Commission for privacy protection. Anyone who seeks complementary information about the way the FNRS processes data can subsequently consult this register.

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 http://www.fnrs.be/index.php/appels-reglements.

Applications can be submitted either in French or in English and online only through SEMAPHORE, the management platform dedicated to calls for proposals at the following address https://applications.frs-fnrs.be/. Moreover, applicants may withdraw their proposal at any time. No amendment or correction to the proposal will be accepted after the validation deadline set for the applicant. In case of publication accepted after the validation deadline set for the applicant, applicants may add them to their application file by 1st May 2017 (FNRS-BOT decision of 9th October 2012) via a dedicated page at https://e-space.frs-fnrs.be, as a follow-up of their application file.

1.2.1 ONLINE SUBMISSION: SEMAPHORE, THE WEB-BASED APPLICATION
In order to use remote reviewers (particularly outside Belgium), the FNRS chose to encourage submissions using SEMAPHORE, 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

The proposal can be written either in French or in English. The chosen language will be taken into account for the selection of the experts who will assess the proposal remotely. However, the title and the summary of the scientific part must always be written in both languages.

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) domains to submit their application in English.

The F.R.S.-FNRS insists on strict compliance of the number of pages allowed for documents that shall be enclosed with the application form and stresses again the sovereign consideration of the Scientific Commissions in case the file would exceed the applicable page limit.

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 SEMAPHORE.

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 a proposed research project. The ethical aspects of a proposal must be described in the scientific section along with the way the applicant intends to take them into account.

The possible ethical problems related to research may refer to (non-exhaustive list) 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 the two latter, the applicant is required to fill in a form provided for such purpose by 1st May at the latest for the “Grants and Fellowships” call and by 31st October for the “Credits and Projects” call.

The way the ethical problems related to the project are handled will be taken into consideration for the scientific evaluation of the proposal.

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 Lettres.

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3 Should the application file be submitted in French, the F.R.S.-FNRS may require the applicant to provide a translation in English for the purpose of conducting the ex-ante evaluation.
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 descending 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.

Applications 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 (FNRS-BOT decision of 16th December 2011, confirmed in December 2012).

In case of publication accepted after the validation deadline set for the applicant, applicants may add them to their application file by 1st May 2017 (FNRS-BOT decision of 9th October 2012) via a dedicated page at https://e-space.frs-fnrs.be, as a follow-up of their application file.

The submitted publications shall not be included in the publications list.

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4 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 (FNRS-BOT decision of 16th December 2011, confirmed in December 2012).

In case of publication accepted after the validation deadline set for the applicant, applicants may add them to their application file by 1st May 2017 (FNRS-BOT decision of 9th October 2012) via a dedicated page at https://e-space.frs-fnrs.be, as a follow-up of their application file.

5 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 SEMAPHORE 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 of the proposal, in French or in English;
• the summary linked to the proposal, in French or in English;
• 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 researches 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 SEMAPHORE (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 s/he considers 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 instruments6);
- 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 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 s/he does not wish to have as reviewers and justifies her/himself;
- 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. 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) domains to submit their application in English7.

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6 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 an extension or a 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 referees, academic authorities, a dedicated Commission, etc.

7 Should the application file be submitted in French, the F.R.S.-FNRS may require the applicant to provide a translation in English for the purpose of conducting the ex-ante evaluation.
Then, applicants select from 2 to 6 descriptor fields in order of relevance (at least 2 descriptor fields\(^8\) must be relevant to the Scientific Commission of their choice) and, they may complete their choice with 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, including the completeness of the file, the FNRS will consider it as ineligible and will retrieve it from the evaluation process. The FNRS will then notify the applicants.

**Contacting referees\(^9\):**
For instruments that involve referees in order for them to give an opinion on certain qualities of the applicant, applicants shall contact the reference persons prior to mentioning their contact details in the application form if they want to make sure that their referees are willing to provide a reference letter as part of their application. After submission of the application file, the F.R.S.-FNRS will contact the reference persons referred in the application form notifying them of the information they should provide, and a reminder will be sent to each referee in due course. No information will be communicated to the applicant on the receipt of the letters to ensure confidentiality.

### 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 and 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.

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\(^8\) 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 sustainable development (covering Nature Sciences, Applied Sciences, Human and Social Sciences), must demonstrate the “sustainable development” part of their research project, including interdisciplinary aspects (2000 characters max.).

\(^9\) Opinion letters from promoters as well as from referees are confidential and are intended to be for the use of members of the Scientific Commissions only.
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 reference):
- 7th February 2017 for Postdoctoral Researcher or Research Associate applicants;
- 7th March 2017 for Research Fellow applicants.

Year extension possibility: an additional year per childbirth or adoption, which occurs after obtaining the degree which gives access to the instrument.

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.

Doctor applicants:
Each fellowship allotted by the FNRS to a doctor-researcher shall be subject to the prior approval of the competent Provincial Council of the Medical Board inasmuch as the

\[10\] The date of reference is the validation deadline fixed for the academic authorities (rectors).
doctor-researcher carries out actions which come under medical practice as defined by the Code of Medical Ethics.

2.1.3 VALIDATION OF THE PROPOSAL

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 who shall be permanently appointed or on probation (equivalent to a permanent appointment) in a university of the CFB.

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

The promoter permanently appointed who will access pension / become professor emeritus by the validation deadline fixed for the academic authorities (rectors) is no longer eligible.

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 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.

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 fixed 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

11 This rule does not apply for promoters of an applicant applying for a Research Associate fellowship.

12 For Research Fellow applicants, Special Doctoral Grant, 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 SEMAPHORE.
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 and if necessary, referees’ letters. 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 her/his 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 (including spaces and punctuation marks), in each language.

The project shall be written in one language only and described in a document that includes the reference bibliography, classified according to the order of appearance in the text and divided into 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 of maximum 4 pages (margins of minimum 15 mm, single space, Arial 12) can be completed with 2 additional pages (maximum) containing graphs and tables.

**The research environment:**
The content (1 page maximum) varies depending on the nature of the project, the research field and the nature of the fellowship.
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 medical specialists;
• 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 after the applications validation deadline on a dedicated page at https://e-space.frs-fnrs.be by 31st March 2017, 2 p.m. (GMT+1) 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 fixed 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: http://www.fnrs.be/index.php/financements/ecoles-doctorales.

2.2.1 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.
2.2.1.1  Research Fellow Fellowship (ASP)  

In accordance with Article 3, paragraph 1 of the F.R.S.-FNRS Rules and regulations for Research Fellows fellowship:

“The Research Fellow fellowship is open to the holders of:

- 1° a master degree for a value of at least 120 credits awarded by a Higher Education Institution within the French-speaking Community of Belgium;
- 2° a master degree for a value of at least 120 credits awarded by a Higher Education Institution within the Dutch-speaking Community, German-speaking Community or from the Royal Military Academy.
- 3° Any other degree as referred to in Article 115 of the Decree of 7th November 2013 of the French-speaking Community of Belgium that defines the landscape of Higher Education and the academic studies organisation.”

Applicants who hold a degree as referred to in paragraph 1, 1°, are required to provide a certificate of achievement or a copy of the diploma.

⇒ This document must be enclosed in the application file or uploaded on E-Space by 7th March 2017 at the latest, at 2 p.m. (GMT + 1).

Applicants who hold a degree as referred to in paragraph 1, 2°, are required to provide a certificate of achievement or a copy of the diploma.

⇒ This document must be enclosed in the application file or uploaded on E-Space by 7th March 2017 at the latest, at 2 p.m. (GMT + 1).

Applicants who hold a degree as referred to in paragraph 1, 3°, are required to provide a registration document or a certificate that enables the admission to doctoral programmes issued by the university where the studies will be carried out, along with a certificate of achievement or a copy of the degree concerned.

⇒ These documents must be enclosed in the application file or uploaded on E-Space by 7th March 2017 at the latest, at 2 p.m. (GMT + 1).

Students who are completing the last year of the studies leading to the Master degree, referred to in paragraph 1, 1° and 2° are required to provide a certificate of registration to the final year of Master degree.

⇒ This document must be enclosed in the application file or uploaded on E-Space by 7th March 2017 at the latest, at 2 p.m. (GMT + 1).

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

Key dates of the call 2017:

• last opening day to request the access to the electronic form for the applicant (on SEMAPHORE): 22nd February 2017 at 2 p.m., Brussels time (GMT+1)
• closing date of the call for the applicant (on SEMAPHORE): 23rd February 2017 at 2 p.m., Brussels time (GMT+1)
• closing date of the validation and deadline to upload the opinion letter by the promoter (on SEMAPHORE): 1st March 2017 at 2 p.m. (GMT+1)
• closing date of the validation by the rector of the host university (on SEMAPHORE): 7th March 2017 at 2 p.m. (GMT+1)

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 specialty training\textsuperscript{13}), by 8\textsuperscript{th} March 2016, the closing date of the validation by the rector of the host university.

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 application submission).

Year extension possibility: an additional year per childbirth or adoption, which occurs after obtaining the degree which gives access to the instrument.

**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 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 grant.

**Submission procedure:**
The application for an ASP fellowship can be made exclusively online through SEMAPHORE. 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 SEMAPHORE.

\textbf{2.2.1.3 Research Fellow renewal (ASP-REN - Aspirant renouvellement): maximum 2 years}

**Specific appendices**

**Key dates of the call 2017:**

- closing date of the call for the applicant (on SEMAPHORE): 23\textsuperscript{rd} February 2017 at 2 p.m., Brussels time (GMT+1)
- closing date by the promoter (on SEMAPHORE): 1\textsuperscript{st} March 2017 at 2 p.m. (GMT+1)
- closing date of the validation by the rector of the host university (on SEMAPHORE): 7\textsuperscript{th} March 2017 at 2 p.m. (GMT+1)
- deadline to receive the opinion document completed by the Supervisory Panel (Thesis Advisory Committee): 31\textsuperscript{st} May 2017

**Submission procedure:**

\textsuperscript{13} Applicants in this situation are required to enclose to their application file a registration document concerning the specialty in question by the validation deadline fixed for the academic authorities (rectors).
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 SEMAPHORE.

The application for an ASP-REN fellowship can be made exclusively online through SEMAPHORE. 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 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 2017 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 university of the French-speaking Community of Belgium takes the ultimate decision for the applicant not to further continue doctoral studies and when the Rector notifies the F.R.S.-FNRS in writing, the Research Fellow fellowship will expire at the end of the ongoing fellowship.

**2.2.2 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 permanently appointed or on probation (equivalent to a permanent appointment) in a university of the French-speaking Community 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 host institution to which they are attached, as a reimbursement for the clinical activities that are not performed during the time dedicated to research.

Holders of a CSD (Medical Doctor Applicants to an MSc and a Ph.D.) or SD (Clinical Master Specialist Applicants to a Ph.D.) fellowship must be enrolled in the Graduate School in clinical and experimental medicine pertained to the Graduate College in medical sciences attached to the F.R.S.-FNRS at the latest on 1st October of the year when the fellowship is granted and shall start.

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

**Specific appendices**

**Characteristics of the fellowship:**

This fellowship is intended for doctors in order to carry out a Ph.D. and a complementary Master’s degree/specialisation simultaneously.
The duration of this fellowship is 2 years with the possibility to renew it three times (amounting to a total maximum duration of 8 years).

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.

Key dates of the call 2017:
- last opening day to request the access to the electronic form for the applicant (on SEMAPHORE): 22nd February 2017 at 2 p.m., Brussels time (GMT+1)
- closing date of the call for the applicant (on SEMAPHORE): 23rd February 2017 at 2 p.m., Brussels time (GMT+1)
- closing date of the validation and deadline to upload the opinion letter by the promoter (on SEMAPHORE): 1st March 2017 at 2 p.m. (GMT+1)
- closing date of the validation by the rector of the host university (on SEMAPHORE): 7th March 2017 at 2 p.m. (GMT+1)

Eligibility criteria:
The applicant to a CSD fellowship must hold the academic degree of medical doctor at the latest on 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 through SEMAPHORE. 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 SEMAPHORE.

2.2.2.2 Medical Doctor Applicant to an MSc and a Ph.D. renewal
(CSD-REN - Candidat spécialiste doctorant renouvellement):
2-year fellowship renewable twice

Specific appendices

Key dates of the call 2017:
- closing date of the call for the applicant (on SEMAPHORE): 23rd February 2017 at 2 p.m., Brussels time (GMT+1)
- closing date by the promoter (on SEMAPHORE): 1st March 2017 at 2 p.m. (GMT+1)
- closing date of the validation by the rector of the host university (on SEMAPHORE): 7th March 2017 at 2 p.m. (GMT+1)
- deadline to receive the opinion document completed by the Supervisory Panel (Thesis Advisory Committee): 31st May 2017

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 SEMAPHORE.
The application for a CSD-REN fellowship can be made exclusively online through SEMAPHORE. 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 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 2017 at the latest.

**Evaluation of the proposal:**
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. When the university of the French-speaking Community of Belgium takes the ultimate decision for the applicant not to further continue doctoral studies and when the Rector notifies the F.R.S.-FNRS in writing, the part-time Medical Doctor Applicant to an MSc and a Ph.D. fellowship will expire at the end of the ongoing fellowship.

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

**Specific appendices**

**Characteristics of the fellowship:**
This fellowship is intended for accredited medical specialists in order to carry out a Ph.D. The duration of this part-time fellowship is 2 years, with the possibility to renew it once (amounting to a total maximum duration of 4 years).

**Key dates of the call 2017:**
- last opening day to request the access to the electronic form for the applicant (on SEMAPHORE): 22nd February 2017 at 2 p.m., Brussels time (GMT+1)
- closing date of the call for the applicant (on SEMAPHORE): 23rd February 2017 at 2 p.m., Brussels time (GMT+1)
- closing date of the validation and deadline to upload the opinion letter by the promoter (on SEMAPHORE): 1st March 2017 at 2 p.m. (GMT+1)
- closing date of the validation by the rector of the host university (on SEMAPHORE): 7th March 2017 at 2 p.m. (GMT+1)

**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 an SD fellowship must have received the accreditation of medical specialist from the Federal Public Service (FPS) for Public Health or the French-speaking community of Belgium 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, which occurs after obtaining the accreditation as medical specialist.

**Submission procedure:**
The application for a SD fellowship can be made exclusively online through SEMAPHORE. 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 SEMAPHORE.

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

**Specific appendices**

**Key dates of the call 2017:**
- closing date of the call for the applicant (on SEMAPHORE): 23rd February 2017 at 2 p.m., Brussels time (GMT+1)
- closing date by the promoter (on SEMAPHORE): 1st March 2017 at 2 p.m. (GMT+1)
- closing date of the validation by the rector of the host university (on SEMAPHORE): 7th March 2017 at 2 p.m. (GMT+1)
- deadline to receive the opinion document completed by the Supervisory Panel (Thesis Advisory Committee): 31st May 2017

**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 SEMAPHORE.
The application for a SD-REN fellowship can be made exclusively online through SEMAPHORE. 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 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 2017 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.
When the university of the French-speaking Community of Belgium takes the ultimate decision for the applicant not to further continue doctoral studies and when the Rector notifies the F.R.S.-FNRS in writing, the part-time Medical Doctor Applicant to an MSc and a Ph.D. fellowship will expire at the end of the ongoing 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 host institution to which they are attached, as a reimbursement for the clinical activities that are not performed during the time dedicated to research.

Applicants who receive a Veterinary MD. Ph.D. Student (VETE-CCD – Vétérinaire Clinicien-Chercheur Doctorant) fellowship must be enrolled in the Doctoral School in veterinary sciences attached to the FNRS at the latest by the time of the granting.

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

Specific appendices

Key dates of the call 2017:
• last opening day to request the access to the electronic form for the applicant (on SEMAPHORE): 22nd February 2017 at 2 p.m., Brussels time (GMT+1)
• closing date of the call for the applicant (on SEMAPHORE): 23rd February 2017 at 2 p.m., Brussels time (GMT+1)
• closing date of the validation and deadline to upload the opinion letter by the promoter (on SEMAPHORE): 1st March 2017 at 2 p.m. (GMT+1)
• closing date of the validation by the rector of the host university (on SEMAPHORE): 7th March 2017 at 2 p.m. (GMT+1)

Eligibility criteria:
In addition to general criteria applicable to doctoral fellowships, the following criteria are specific to the Veterinary MD Ph.D. Student fellowship (VETE-CCD – Vétérinaire Clinicien-Chercheur Doctorant):
• be less than 35 years old at the latest on 7th March 2017, the closing date of validation by the academic authorities (rectors);
• be employed in a full-time position in the University Veterinary Clinic (Clinique Vétérinaire Universitaire) of the CFB, at the latest on 7th March 2017, the closing date of validation by the academic authorities (rectors);
• have been involved for at least 2 years in a specialisation training programme approved by the European bodies (European Colleges recognised by the European Board of Veterinary Specialisation).

Submission procedure:
The application for a VETE-CCD fellowship can be made exclusively online through SEMAPHORE. 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 SEMAPHORE.

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

Specific appendices

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 university of the French-speaking Community of Belgium.

Key dates of the call 2017:
- last opening day to request the access to the electronic form for the applicant (on SEMAPHORE): 22nd February 2017 at 2 p.m., Brussels time (GMT+1)
- closing date of the call for the applicant (on SEMAPHORE): 23rd February 2017 at 2 p.m., Brussels time (GMT+1)
- closing date of the validation and deadline to upload the opinion letter by the promoter (on SEMAPHORE): 1st March 2017 at 2 p.m. (GMT+1)
- closing date of the validation by the rector of the host university (on SEMAPHORE): 7th March 2017 at 2 p.m. (GMT+1)
- deadline to receive the opinion document completed by the Supervisory Panel (Thesis Advisory Committee): 7th March 2017
- deadline to receive the promoter’s statement: 7th March 2017

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 semaphore@frs-fnrs.be before 22nd February 2017, add “Appel BSD 2017” 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 through SEMAPHORE. 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 will send the document to the FNRS by 7th March 2017 at the latest, the validation deadline fixed for the academic authorities (rectors).

The applicant must provide a statement by her/his 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 7th March 2017 at the latest, the validation deadline fixed for the academic authorities (rectors).

**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 specialists.

2.3.1 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.

2.3.1.1 Postdoctoral Researcher\(^{14}\)
(CR - Chargé de recherches): 3 years

Specific appendices

Key dates of the call 2017:
• last opening day to request the access to the electronic form for the applicant (on SEMAPHORE): 25\(^{th}\) January 2017 at 2 p.m., Brussels time (GMT+1)
• closing date of the call for the applicant (on SEMAPHORE): 26\(^{th}\) January 2017 at 2 p.m., Brussels time (GMT+1)
• closing date of the validation and deadline to upload the opinion letter by the promoter (on SEMAPHORE): 1\(^{st}\) February 2017 at 2 p.m. (GMT+1)
• closing date of the validation by the rector of the host university (on SEMAPHORE): 7\(^{th}\) February 2017 at 2 p.m. (GMT+1)

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 on 7\(^{th}\) February 2017, the validation deadline fixed for the academic authorities (rectors) or
• to hold this degree at the latest by the 1\(^{st}\) May of the year during which the application is submitted (in such case the applicant must upload a sworn statement in the application file or on E-Space).

\(^{14}\) Applicants to a Postdoctoral Research fellowship who are planning one or several research stays will be required to provide a letter of approval or emails exchanges which demonstrate that formalities are being processed.
Year extension possibility: an additional year per childbirth or adoption, which occurs after obtaining the doctoral degree (Ph.D.) which gives access to this instrument.

**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 through SEMAPHORE. 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 SEMAPHORE.

### 2.3.2 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 permanently appointed or on probation (equivalent to a permanent appointment) in a university of the French-speaking Community 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 host institution to which they are attached, as a reimbursement for the clinical activities that are not performed during the time dedicated to research.

The length of this part-time fellowship is 2 years, with the possibility to renew it three times (amounting to a total maximum duration of 8 years).

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

**Specific appendices**

**Key dates of the call 2017:**
- last opening day to request the access to the electronic form for the applicant (on SEMAPHORE): 25th January 2017 at 2 p.m., Brussels time (GMT+1)
- closing date of the call for the applicant: 26th January 2017 at 2 p.m., Brussels time (GMT+1)
- closing date of the validation and deadline to upload the opinion letter by the promoter (on SEMAPHORE): 1st February 2017 at 2 p.m. (GMT+1)
- closing date of the validation by the rector of the host university (on SEMAPHORE): 7th February 2017 at 2 p.m. (GMT+1)
Eligibility criteria:
Applicants for a fellowship for Post-doctorate Clinical Master Specialists (SPD – Spécialiste postdoctorant) must meet the 2 following conditions:
• to hold the academic degree of medical specialist;
• to hold a doctoral degree (Ph.D.) for a maximum of 5 years on 7th February 2017, the closing date of validation by the academic authorities (rectors) or to hold this degree at the latest by the 1st May of the year during which the application is submitted (in such case the applicant must upload a sworn statement in the application file or on E-Space).

Year extension possibility: an additional year per childbirth or adoption, which occurs after obtaining the doctoral degree (Ph.D.) which gives access to this instrument.

Submission procedure:
The application for a SPD fellowship can be made exclusively online through SEMAPHORE. 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 SEMAPHORE.

2.3.2.2 Post-doctorate Clinical Master Specialist Renewal Fellowship (SPD-REN - Spécialiste postdoctorant renouvellement):
2-year fellowship renewable twice

Specific appendices

Key dates of the call 2017:
• closing date of the call for the applicant (on SEMAPHORE): 26th January 2017 at 2 p.m., Brussels time (GMT+1)
• closing date of the validation and deadline to upload the opinion letter by the promoter (on SEMAPHORE): 1st February 2017 at 2 p.m. (GMT+1)
• closing date of the validation by the rector of the host university (on SEMAPHORE): 7th February 2017 at 2 p.m. (GMT+1)

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 SEMAPHORE. The application for a Fellowship for Post-doctorate Clinical Master Specialists renewal (SPD-REN - Spécialiste postdoctorant renouvellement) can be made exclusively online through SEMAPHORE. 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.
As from the second renewal, the application will be assessed by the relevant Scientific Commission.

Content and evaluation of the proposal as from 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 Semaphore.
2.4 EXPERIENCED RESEARCHERS

The fellowship for experienced 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

(CQ - Chercheur qualifié)

Specific appendices

Key dates of the call 2017:

• last opening day to request the access to the electronic form for the applicant (on SEMAPHORE): 25th January 2017 at 2 p.m., Brussels time (GMT+1)
• closing date of the call for the applicant (on SEMAPHORE): 26th January 2017 at 2 p.m., Brussels time (GMT+1)
• closing date of the validation and deadline to upload the opinion letter by the promoter (on SEMAPHORE): 1st February 2017 at 2 p.m. (GMT+1)
• closing date of the validation by the rector of the host university (on SEMAPHORE): 7th February 2017 at 2 p.m. (GMT+1)

Eligibility criteria:
Applicants for 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 on 7th February 2017, the closing date of validation by the academic authorities (rectors).

Year extension possibility: an additional year per childbirth or adoption, which occurs after obtaining the doctoral degree (Ph.D.) which gives access to this instrument.

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:

15 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 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.
The application for a Research Associate fellowship (CQ) can be made exclusively online through SEMAPHORE. 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;
• quality of the project (25%): feasibility, methodology, originality, potential impact;
• research environment (10%);
• international potential/recognition (25%): long stays abroad\textsuperscript{16}, invitations to international conferences, active collaborations, participation in networks.
The detail of the information required from the applicants is available on SEMAPHORE.

2.4.2 PROMOTION: SENIOR RESEARCH ASSOCIATE
(MR - Maître de recherches)

Specific appendices

Key dates of the call 2017:
• last opening day to request the access to the electronic form for the applicant (on SEMAPHORE): 25\textsuperscript{th} January 2017 at 2 p.m., Brussels time (GMT+1)
• closing date of the call for the applicant (on SEMAPHORE): 26\textsuperscript{th} January 2017 at 2 p.m., Brussels time (GMT+1)
• closing date of the validation by the rector of the host university (on SEMAPHORE): 7\textsuperscript{th} February 2017 at 2 p.m. (GMT+1)

Eligibility criteria:
In accordance to Article 10, §1,
Holders of a F.R.S.-FNRS Research Associate fellowship may seek promotion to the title of Senior Research Associate as from the beginning of the 8\textsuperscript{th} academic year following their appointment, provided that they have been carrying out a fundamental activity for 8 years.

Application restrictive rules:
Applicants who would have previously resigned from a Senior Research Associate fellowship (MR) shall not apply for a new fellowship.
The promotion to the title of Senior Research Associate (MR) shall not be sought more than three times over a period of nine years.

Submission procedure:
The application for a Senior Research Associate fellowship (MR) can be made exclusively online through SEMAPHORE. Following the applicant’s validation, the proposal is validated by the rector.

\textsuperscript{16} A long stay abroad is a key element adding value to the application file.
In order to apply for such a promotion, Research Associates must enclose a summary report\textsuperscript{17} of 12,000 words maximum with their application file. This report shall present the research they have carried out and highlight their originality and innovative nature.

**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;
• quality of the project: feasibility, methodology, originality, potential impact;
• 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 SEMAPHORE.

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

**Specific appendices**

**Key dates of the call 2017:**
• last opening day to request the access to the electronic form for the applicant (on SEMAPHORE): 25\textsuperscript{th} January 2017 at 2 p.m., Brussels time (GMT+1)
• closing date of the call for the applicant (on SEMAPHORE): 26\textsuperscript{th} January 2017 at 2 p.m., Brussels time (GMT+1)
• closing date of the validation by the rector of the host university (on SEMAPHORE): 7\textsuperscript{th} February 2017 at 2 p.m. (GMT+1)

**Eligibility criterion:**
Senior Research Associates (MR – Maîtr de recherches) who genuinely carry out the fellowship may seek promotion to the title of Research Director (DR – Directeur de recherches) as from the beginning of the 4\textsuperscript{th} year of the Senior Research Associate fellowship (MR).

**Application restrictive rules:**
Applicants who would have previously resigned from a Research Director fellowship (DR) shall not apply for a new fellowship.
The promotion to the title of Research Director (DR) 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 through SEMAPHORE. 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:

\textsuperscript{17} The 12,000-word summary report is available for Scientific Commission members only.
• 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;
• quality of the project: feasibility, methodology, originality, potential impact;
• 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 SEMAPHORE.
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 (M.I.S.-ULYSSE) consists in encouraging highly qualified Belgian or foreign researchers who currently pursue a scientific career abroad to come in Belgium and develop their career in a university of the CFB.

The promoter of the MISU fellowship is remunerated by the host academic institution and receives an annual credit of € 200,000 based on an annual average, which can be allocated to cover personal, 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

Specific appendices

Key dates of the call 2017:
• last opening day to request the access to the electronic form for the applicant (on SEMAPHORE): 25th January 2017 at 2 p.m., Brussels time (GMT+1)
• closing date of the call for the applicant (on SEMAPHORE): 26th January 2017 at 2 p.m., Brussels time (GMT+1)
• closing date of the validation by the rector of the host university (on SEMAPHORE): 7th February 2017 at 2 p.m. (GMT+1)
• deadline to receive the letter of endorsement by the rector of the host university: 7th February 2017.

Eligibility criteria:
When submitting their application, applicants must:
• not hold a FNRS fellowship
• have been living abroad for at least 5 uninterrupted years

Application restrictive rule:
Applicants for a M.I.S.-ULYSSE grant shall not apply 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. The applicant must have the required skills to lead a research team and must enjoy an international scientific recognition.

Submission procedure and content of the file:
The application for a M.I.S.-ULYSSE grant can be made exclusively online through SEMAPHORE. 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 innovation of the project;
• possibility to launch a new research unit;
• scientific autonomy towards any existing research unit or laboratory in the host university;
• future-oriented theme (development prospects in the field of study);
• three recommendations from scientific experts (letters of reference);
• Applicant’s scientific experience.

2.5.2 M.I.S.-ULYSSE, EXTENSION (MISU-PROL): 1 YEAR

Key date of the call 2017:
• closing date of the call for the applicant (on SEMAPHORE): 25th January 2017 at 2 p.m., Brussels time (GMT+1)
• closing date of the validation by the rector of the host university (on SEMAPHORE): 7th February 2017 at 2 p.m. (GMT+1)

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 SEMAPHORE. The request for a MISU-PROL grant can be made exclusively online through SEMAPHORE. 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.
Appendice

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

Scientific Commissions,
descriptor fields and keywords
<table>
<thead>
<tr>
<th>HUMAN AND SOCIAL SCIENCES</th>
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<tbody>
<tr>
<td><strong>SHS-1</strong> Sciences Humaines et sociales –1</td>
</tr>
<tr>
<td>sociology, social anthropology, political science, communication (based on ERC-SH2)</td>
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<tr>
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### Human and Social Sciences – 2

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<td>Human life-span development</td>
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<td>Neuropsychology and cognitive psychology</td>
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**cognition, psychology, education (based on ERC-SH4)**

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<td>Gender Studies</td>
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**SHS-2**  
Sciences Humaines et sociales – 2  
Human and Social Sciences – 2

**cognition, psychologie, sciences de l'éducation (basé sur ERC-SH4)**

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<td>FNRS-7</td>
<td>Psychologie des ressources humaines</td>
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<tr>
<td>FNRS-8</td>
<td>Psychologie de la santé</td>
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<tr>
<td>FNRS-9</td>
<td>Psychopathologie expérimentale</td>
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<tr>
<td>FNRS-27</td>
<td>Processus d'enseignement et d'apprentissage en contexte scolaire</td>
</tr>
<tr>
<td>FNRS-28</td>
<td>Processus d'éducation et de formation non scolaires</td>
</tr>
<tr>
<td>FNRS-29</td>
<td>Etude des systèmes et des politiques d'enseignement et de formation</td>
</tr>
<tr>
<td>FNRS-31</td>
<td>Pathologies du langage</td>
</tr>
<tr>
<td>IDR-32</td>
<td>Etudes de genre</td>
</tr>
</tbody>
</table>
| SHS-3 | Sciences Humaines et sociales – 3  
Human and Social Sciences – 3  

**litterature, linguistics, philosophy, visual and performing arts (based on ERC-SH4 and ERC-SH5)**  
**littérature, langues et linguistique, philosophie, arts visuels, arts de la scène (basé sur ERC-SH4 et ERC-SH5)** |
|-----------|---------------------------------|
| SH4_5     | Formal, cognitive, functional and computational linguistics  
Linguistique formelle, cognitive, fonctionnelle et computationnelle |
| SH4_6     | Typological, historical and comparative linguistics  
Linguistique typologique, historique et comparée |
| SH4_8     | Use of language: pragmatics, sociolinguistics, discourse analysis  
Utilisation du langage : pragmatique, sociolinguistique, analyse du discours |
| SH4_10    | Philosophy, history of philosophy  
Philosophie, histoire de la philosophie |
| SH4_11    | Epistemology, logic, philosophy of science  
Épistémologie, logique, philosophie des sciences |
| SH4_12    | Ethics and morality, bioethics  
Ethique et moralité, bioéthique |
| SH5_1     | Classics  
Classiques |
| SH5_2     | History of literature  
Histoire de la littérature |
| SH5_3     | Literary theory and comparative literature, literary styles  
Théorie littéraire et littérature comparée, styles littéraires |
| SH5_4     | Textual philology and palaeography  
Philologie textuelle et paléographie |
| SH5_5     | Visual arts  
Arts visuels |
| SH5_6     | Performing arts  
Arts de la scène |
| SH5_9     | Music and musicology, history of music  
Musique et musicologie, histoire de la musique |
| SH5_10    | History of art and architecture  
Histoire de l'art et de l'architecture |
| SH5_11    | Cultural studies, cultural diversity  
Études culturelles, diversité culturelle |
| SH5_12    | Cultural memory, intangible cultural heritage  
Mémoire culturelle, patrimoine culturel immatériel |
| FNRS-10   | Religious sciences, humanism or secularism, freemasonry  
Sciences des religions, laïcité, franc-maçonnerie |
| FNRS-11   | Theology  
Théologie |
| FNRS-12   | Logic and argumentation  
Logique et argumentation |
| FNRS-13   | Live performing arts, cultural communication  
Arts du spectacle vivant, communication culturelle |
| FNRS-14   | Cultural management  
Gestion culturelle |
| FNRS-15   | Cinema and visual communication  
Cinéma et communication visuelle |
| FNRS-16   | Architecture  
Architecture |
| FNRS-35   | Second language teaching and learning, lexicography, terminology  
Enseignement et apprentissage d'une deuxième langue, lexicographie, terminologie |
| IDR-32    | Gender Studies  
Etudes de genre |
### SHS-4

**Sciences Humaines et sociales – 4**  
**Human and Social Sciences – 4**

<table>
<thead>
<tr>
<th>Code</th>
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<tr>
<td>SH6_1</td>
<td>Archaeology, archaeometry, landscape archaeology</td>
<td>Archéologie, archéométrie, archéologie du paysage</td>
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<tr>
<td>SH6_2</td>
<td>Prehistory and protohistory</td>
<td>Préhistoire et protohistoire</td>
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<td>SH6_3</td>
<td>Ancient history, ancient cultures</td>
<td>Histoire ancienne, culture ancienne</td>
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<td>SH6_4</td>
<td>Medieval history</td>
<td>Histoire médiévale</td>
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<tr>
<td>SH6_5</td>
<td>Modern and contemporary history</td>
<td>Histoire moderne et contemporaine</td>
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<tr>
<td>SH6_6</td>
<td>Colonial history, entangled histories, global history</td>
<td>Histoire coloniale, histoires enchevêtrées, histoire mondiale</td>
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<td>SH6_7</td>
<td>Military history</td>
<td>Histoire militaire</td>
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<td>SH6_8</td>
<td>Historiography, theory and methods of history</td>
<td>Historiographie, théories et méthodes de l'histoire</td>
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<tr>
<td>SH6_9</td>
<td>History of ideas, intellectual history</td>
<td>Histoire des idées, histoire intellectuelle</td>
</tr>
<tr>
<td>SH6_10</td>
<td>Social, economic, cultural and political history</td>
<td>Histoire sociale, économique, culturelle et politique</td>
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<td>SH6_11</td>
<td>Collective memories, identities, lieux de mémoire, oral history</td>
<td>Mémoires collectives, identités, lieux de mémoire, histoire orale</td>
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<td>SH6_12</td>
<td>Cultural heritage</td>
<td>Patrimoine culturel</td>
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<td>SH2_14</td>
<td>History of science and technology</td>
<td>Histoire de la science et des technologies</td>
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<tr>
<td>SHS_7</td>
<td>Museums and exhibitions</td>
<td>Musées et expositions</td>
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<tr>
<td>FNRS-10</td>
<td>Religious sciences, humanism or secularism, freemasonry</td>
<td>Sciences des religions, laïcité, franc-maçonnerie</td>
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<td>FNRS-17</td>
<td>Economic history</td>
<td>Histoire économique</td>
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<td>FNRS-18</td>
<td>Numismatics, epigraphy and paleography</td>
<td>Numismatique, épigraphie et paléographie</td>
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<tr>
<td>FNRS-19</td>
<td>History of music</td>
<td>Histoire de la musique</td>
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<td>FNRS-20</td>
<td>History of art</td>
<td>Histoire de l'art</td>
</tr>
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<td>FNRS-21</td>
<td>History of architecture and urbanism</td>
<td>Histoire de l'architecture et de l'urbanisme</td>
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<td>FNRS-24</td>
<td>Demographic history</td>
<td>Démographie historique</td>
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<tr>
<td>IDR-32</td>
<td>Gender Studies</td>
<td>Etudes de genre</td>
</tr>
</tbody>
</table>
### SHS-5

**Sciences Humaines et sociales – 5**

**Human and Social Sciences – 5**

- **economics, finance and management; law; environmental studies, demography, social geography, urban and regional studies (based on ERC-SH1, ERC-SH2 and ERC-SH3)**
  - **économies, finance et gestion; droit; études environnementales, démographie, géographie sociale, études urbaines et régionales (basé sur ERC-SH1, ERC-SH2 et ERC-SH3)**

#### SH1_1
- Macroeconomics, growth, business cycles
- Macroeconomie, croissance, cycles économiques

#### SH1_2
- Microeconomics, institutional economics
- Microéconomie, économie institutionnelle

#### SH1_3
- Econometrics, statistical methods
- Économétrie, méthodes statistiques

#### SH1_4
- Financial markets, banking and corporate finance
- Marchés financiers, banque, finance d'entreprise

#### SH1_5
- Competitiveness, innovation, research and development
- Compétitivité, innovation, recherche et développement

#### SH1_6
- Consumer choice, behavioural economics, marketing
- Décisions de consommation, économie comportementale, marketing

#### SH1_7
- Organization studies, strategy
- Théories des structures, stratégie

#### SH1_8
- Human resource management, employment and earnings
- Gestion des ressources humaines, emploi et revenus

#### SH1_9
- Public administration, public economics
- Administration publique, économie publique

#### SH1_10
- Income distribution, poverty
- Répartition des revenus, pauvreté

#### SH1_11
- International trade, economic geography
- Commerce international, économie géographique

#### SH1_12
- Economic history, development
- Histoire économique, développement

#### SH2_9
- Legal systems, constitutions, foundations of law
- Systèmes juridiques, constitutions, fondements du droit

#### SH2_10
- Private, public and social law
- Droits privé, public et social

#### SH2_11
- Global and transnational governance, international law, human rights
- Gouvernance mondiale et transnationale, droit international, droits de l'homme

#### SH3_1
- Environment and sustainability
- Environnement et développement durable

#### SH3_6
- Spatial and regional planning
- Aménagement de l'espace et du territoire

#### SH3_7
- Population dynamics
- Dynamique des populations

#### SH3_8
- Urbanization and urban planning, cities
- Urbanisation et aménagement urbain, villes

#### SH3_9
- Mobility and transportation
- Mobilité et transport

### FNRS-2

- **Criminology**
  - Criminologie

- **transdisciplinary research aiming at addressing a problem related to society cohesion and evolution (in any aspect: economical, societal, philosophical, historical, ...)**
  - **recherche transdisciplinaire dont l'objectif est de s'attaquer à un problème en rapport avec la cohésion et l'évolution de la société (aspects économiques, sociétaux, philosophiques, historiques, ...)**

#### IDR-2
- Lifespan education
  - Education tout au long de la vie

#### IDR-3
- Ageing population
  - Vieillissement de la population

#### IDR-4
- Social and geographical mobility
  - Mobilité sociale et géographique

#### IDR-5
- migration, integration
  - Migration, intégration

#### IDR-7
- Public health, health policies
  - Santé publique, politiques de santé

#### IDR-10
- Regional development
  - Développement régional

#### IDR-11
- European integration
  - Intégration européenne

#### IDR-12
- Consumer
  - Consommation

#### IDR-32
- Gender Studies
  - Etudes de genre
### SCIENCES EXACTES ET NATURELLES
### EXACT AND NATURAL SCIENCES

#### SEN-1

**Sciences Exactes et Naturelles – 1**  
**Exact and Natural Sciences – 1**

**structure, electronic properties, fluids, nanosciences (based on ERC-PE3)**  
**structure, propriétés électro-soniques, fluides, nanosciences (basé sur ERC-PE3)**

| PE3_1 | Structure of solids and liquids  
Structure des solides et des liquides |
|-------|----------------------------------|
| PE3_2 | Mechanical and acoustical properties of condensed matter  
Propriétés mécaniques et acoustiques de la matière condensée |
| PE3_3 | Thermal properties of condensed matter  
Propriétés thermiques de la matière condensée |
| PE3_4 | Transport properties of condensed matter  
Propriétés de transport de la matière condensée |
| PE3_5 | Electronic properties of materials and transport  
Propriétés électro-soniques des matériaux et du transport |
| PE3_6 | Lattice dynamics  
Dynamique réticulaire |
| PE3_7 | Semiconductors  
Semi-conducteurs |
| PE3_8 | Superconductivity  
Superconduction |
| PE3_9 | Superfluids  
Superfluides |
| PE3_10 | Spintronics  
Spintronique |
| PE3_11 | Magnetism  
Magnétisme |
| PE3_12 | Nanophysics: nanoelectronics, nanophotonics, nanomagnetism  
Nanophysique : nanoélectronique, nanophotonique, nanomagnétisme |
| PE3_13 | Mesoscopic physics  
Physique mésoscopique |
| PE3_14 | Molecular electronics  
Electronique moléculaire |
| PE3_15 | Soft condensed matter (liquid crystals...)  
Matière condensée molle (cristaux liquides...) |
| PE3_16 | Fluid dynamics (physics)  
Dynamiques des fluides (physique) |
| PE3_17 | Statistical physics (condensed matter)  
Physique statistique (matière condensée) |
| PE3_18 | Phase transitions, phase equilibria  
Changements de phase, équilibre de phases |
| PE3_19 | Biophysics  
Biophysique |

#### analytical chemistry, chemical theory, physical chemistry/chemical physics (based on ERC-PE4)

**chimie analytique, chimie théorique, physico-chimie/chimie physique (basé sur ERC-PE4)**

| PE4_1 | Physical chemistry  
Physico-chimie |
|-------|---------------------|
| PE4_2 | Nanochemistry  
Nanochimie |
| PE4_3 | Spectroscopic and spectrometric techniques  
Techniques spectroscopiques et spectrométriques |
| PE4_4 | Molecular architecture and Structure  
Structure et architecture moléculaires |
| PE4_5 | Surface science  
Sciences des surfaces |
| PE4_6 | Analytical chemistry  
Chimie analytique |
| PE4_7 | Chemical physics  
Chimie physique |
| PE4_8 | Chemical instrumentation  
Instrumentation de chimie |
| PE4_9 | Electrochemistry, electrodialysis, microfluidics  
Electrochimie, électrodialyse, microfluidique |
| PE4_10 | Combinatorial chemistry  
Chimie combinatoire |
| PE4_11 | Method development in chemistry  
Développement de méthodes en chimie |
| PE4_12 | Catalysis  
Catalyse |
| PE4_13 | Physical chemistry of biological systems  
Physicochimie des systèmes biologiques |
| PE4_14 | Chemical reactions: mechanisms, dynamics, kinetics and catalytic reactions  
Réactions chimiques : mécanismes, dynamique, cinétique et réactions catalytiques |
| PE4_15 | Theoretical and computational chemistry  
|        | Chimie théorique et numérique |
| PE4_16 | Radiation chemistry  
|        | Radiochimie |
| PE4_17 | Nuclear chemistry  
|        | Chimie nucléaire |
| PE4_18 | Photochemistry  
|        | Photochimie |
| PE5_1 | Structural properties of materials  
|        | Propriétés structurales des matériaux |
| PE5_2 | Solid state materials  
|        | Matériaux solides |
| PE5_3 | Surface modification  
|        | Modifications de surface |
| PE5_4 | Thin films  
|        | Couches minces |
| PE5_5 | Corrosion  
|        | Corrosion |
| PE5_6 | Porous materials  
|        | Matériaux poreux |
| PE5_7 | Ionic liquids  
|        | Liquides ioniques |
| PE5_8 | New materials: oxides, alloys, composite, organic-inorganic hybrid, superconductors  
|        | Nouveaux matériaux : oxydes, alliages, composites, hybrides organiques-inorganiques, supraconducteurs |
| PE5_9 | Materials for sensors  
|        | Matériaux pour capteurs |
| PE5_10 | Nanomaterials: nanoparticles, nanotubes  
|        | Nanomatériaux : nanoparticules, nanotubes |
| PE5_11 | Biomaterials synthesis  
|        | Biomatériaux de synthèse |
| PE5_12 | Intelligent materials – self assembled materials  
|        | Matériaux intelligents – matériaux auto-assemblés |
| PE5_13 | Environment chemistry  
|        | Chimie environnementale |
| PE5_14 | Coordination chemistry  
|        | Chimie de coordination |
| PE5_15 | Colloid chemistry  
|        | Chimie des colloïdes |
| PE5_16 | Biological chemistry  
|        | Chimie biologique |
| PE5_17 | Chemistry of condensed matter  
|        | Chimie de la matière condensée |
| PE5_18 | Homogeneous and heterogeneous catalysis  
|        | Catalyse homogène et hétérogène |
| PE5_19 | Characterization methods of materials  
|        | Techniques de caractérisation des matériaux |
| PE5_20 | Macromolecular chemistry  
|        | Chimie macromoléculaire |
| PE5_21 | Polymer chemistry  
|        | Chimie des polymères |
| PE5_22 | Supramolecular chemistry  
|        | Chimie supramoléculaire |
| PE5_23 | Organic chemistry  
|        | Chimie organique |
| PE5_24 | Molecular chemistry  
|        | Chimie moléculaire |
| FNRS-22 | Materials for architecture  
|        | Matériaux pour l'architecture |
| FNRS-23 | Materials for dentistry  
<p>|        | Matériaux pour la stomatologie |</p>
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<thead>
<tr>
<th><strong>SEN-2</strong></th>
<th>Sciences Exactes et Naturelles – 2</th>
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<tr>
<td><strong>Exact and Natural Sciences – 2</strong></td>
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</tr>
<tr>
<td><strong>all areas of mathematics, pure and applied, plus mathematical foundations of computer science, mathematical physics and statistics (based on ERC-PE1)</strong></td>
<td><strong>tous les domaines des mathématiques, pures et appliquées, plus les fondements mathématiques des sciences informatiques, la physique mathématique et les statistiques (basé sur ERC-PE1)</strong></td>
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<tr>
<td>PE1_1 Logic and foundations of mathematics</td>
<td>Logique et mathématiques de base</td>
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<td>PE1_2 Algebra</td>
<td>Algèbre</td>
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<td>PE1_3 Number theory</td>
<td>Théorie des nombres</td>
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<td>PE1_4 Algebraic and complex geometry</td>
<td>Géométrie algébrique et complexe</td>
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<td>PE1_5 Geometry</td>
<td>Géométrie</td>
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<td>PE1_6 Topology</td>
<td>Topologie</td>
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<tr>
<td>PE1_7 Lie groups, Lie algebras</td>
<td>Groupes de Lie, algèbre de Lie</td>
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<td>PE1_8 Analysis</td>
<td>Analyse</td>
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<tr>
<td>PE1_9 Operator algebras and functional analysis</td>
<td>Opérateurs algébriques, analyse fonctionnelle</td>
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<tr>
<td>PE1_10 ODE and dynamical systems</td>
<td>EDO et systèmes dynamiques</td>
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<td>PE1_11 Partial differential equations</td>
<td>Equations aux dérivées partielles</td>
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<td>PE1_13 Probability and statistics</td>
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<td>PE1_14 Combinatorics</td>
<td>Combinatoire</td>
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<tr>
<td>PE1_15 Mathematical aspects of computer science</td>
<td>Aspects mathématiques des sciences informatiques</td>
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<tr>
<td>PE1_16 Numerical analysis and scientific computing</td>
<td>Analyse numérique et informatique scientifique</td>
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<td>PE1_17 Control theory and optimization</td>
<td>Théorie du contrôle et optimisation</td>
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<td>PE1_18 Application of mathematics in sciences</td>
<td>Application des mathématiques en sciences</td>
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<td><strong>particle, nuclear, plasma, atomic, molecular, gas, and optical physics (based on ERC-PE2)</strong></td>
<td><strong>physique des particules, nucléaire, des plasmas, atomique, moléculaire, des gaz, optique (basé sur ERC-PE2)</strong></td>
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<td>Interactions fondamentales et champs</td>
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<td>Physique des particules</td>
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<td>PE2_3 Nuclear physics</td>
<td>Physique nucléaire</td>
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<td>Astrophysique nucléaire</td>
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<td>PE2_5 Gas and plasma physics</td>
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<td>PE2_7 Atomic, molecular physics</td>
<td>Physique atomique et moléculaire</td>
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<td>PE2_11 Relativity</td>
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<td>Metrology and measurement</td>
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<td>Statistical physics (gases)</td>
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<td>Physique statistique (gaz)</td>
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<td>solar system; stellar, galactic and extragalactic astronomy, planetary systems, cosmology; space science, instrumentation (based on ERC-PE9)</td>
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<td>astro-physique/chimie/biologie: système solaire, astronomie stellaire, galactique et extra-galactique; systèmes planétaires, cosmologie; sciences de l'espace, instrumentation (basé sur ERC-PE9)</td>
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<td>Formation des étoiles et des planètes</td>
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<td>PE9_5</td>
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<td>PE9_7</td>
<td>The Galaxy</td>
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<td>La Galaxie</td>
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<td>PE9_8</td>
<td>Formation and evolution of galaxies</td>
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<td>Formation et évolution des galaxies</td>
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<td>Clusters of galaxies and large scale structures</td>
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<td>Amas de galaxies et structures de grande échelle</td>
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<td>PE9_10</td>
<td>High energy and particles astronomy – X-rays, cosmic rays, gamma rays, neutrinos</td>
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<td>Astronomie des hautes énergies et des particules - rayons X, rayons cosmiques, rayons gamma, neutrinos</td>
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<td>PE9_11</td>
<td>Relativistic astrophysics</td>
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<td>Astrophysique relativiste</td>
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<tr>
<td>PE9_12</td>
<td>Dark matter, dark energy</td>
</tr>
<tr>
<td></td>
<td>Matière noire, énergie noire</td>
</tr>
<tr>
<td>PE9_13</td>
<td>Gravitational astronomy</td>
</tr>
<tr>
<td></td>
<td>Astronomie gravitationnelle</td>
</tr>
<tr>
<td>PE9_14</td>
<td>Cosmology</td>
</tr>
<tr>
<td></td>
<td>Cosmologie</td>
</tr>
<tr>
<td>PE9_15</td>
<td>Space Sciences</td>
</tr>
<tr>
<td></td>
<td>Sciences de l'espace</td>
</tr>
<tr>
<td>PE9_16</td>
<td>Very large data bases: archiving, handling and analysis</td>
</tr>
<tr>
<td></td>
<td>Très grandes bases de données : archivage, gestion, analyse</td>
</tr>
<tr>
<td>PE9_17</td>
<td>Instrumentation - telescopes, detectors and techniques</td>
</tr>
<tr>
<td></td>
<td>Instrumentation - télescopes, détecteurs et techniques</td>
</tr>
<tr>
<td>PE9_18</td>
<td>Solar planetology</td>
</tr>
<tr>
<td></td>
<td>Planétologie du système solaire</td>
</tr>
</tbody>
</table>
| SEN-3 | Sciences Exactes et Naturelles – 3  
Exact and Natural Sciences – 3 |
|-------|--------------------------------------------------------------------------------|
|       | **informatics and information systems, computer science, scientific computing, intelligent systems (based on ERC-PE6)**  
**systèmes informatiques et d’information, informatique, calcul scientifique, systèmes intelligents (basé sur ERC-PE6)** |
| PE6_1 | Computer architecture  
Architecture informatique |
| PE6_2 | Database management  
Gestion de bases de données |
| PE6_3 | Formal methods  
Méthodes formelles |
| PE6_4 | Graphics and image processing  
Représentation graphique et traitement de l’image |
| PE6_5 | Human computer interaction and interface  
Interaction et interface homme-ordinateur |
| PE6_6 | Informatics and information systems  
Systèmes informatique et d’information |
| PE6_7 | Theoretical computer science including quantum information  
Informatique théorique y compris l’information quantique |
| PE6_8 | Intelligent systems  
Systèmes intelligents |
| PE6_9 | Scientific computing  
Informatique scientifique |
| PE6_10 | Modelling tools  
Outils de modélisation |
| PE6_11 | Multimedia  
Multimedia |
| PE6_12 | Parallel and distributed computing  
Informatique parallèle et distribuée |
| PE6_13 | Speech recognition  
Reconnaissance vocale |
| PE6_14 | Systems and software  
Système et logiciel |
|       | **electronic, communication, optical and systems engineering (based on ERC-PE7)**  
**électronique, communication et ingénierie des systèmes (basé sur ERC-PE7)** |
| PE7_1 | Control engineering  
Automatique |
| PE7_2 | Electrical and electronic engineering: semiconductors, components, systems  
Ingénierie électrique et électronique : semi-conducteurs, composants, systèmes |
| PE7_4 | Simulation engineering and modelling  
Ingénierie en simulation, et modélisation |
| PE7_5 | Systems engineering, sensorsics, automation  
Ingénierie des systèmes, capteurs, automatisation |
| PE7_6 | Micro- and nanoelectronics, optoelectronics  
Micro- et nanélectronique, optoélectronique |
| PE7_7 | Communication technology, high-frequency technology  
Technologie des communications, technologie des hautes fréquences |
| PE7_8 | Signal processing  
Traitement du signal |
| PE7_9 | Networks  
Réseaux |
| PE7_10 | Man-machine-interfaces  
Interfaces homme-machine |
| PE7_11 | Robotics  
Robotique |
|       | **product design, process design and control, construction methods, civil engineering, energy systems, material engineering (based on ERC-PE8)**  
**conception de produits, conception et contrôle des procédés, méthodes de construction, génie civil, systèmes énergétiques, ingénierie des matériaux (basé sur ERC-PE8)** |
| PE8_1 | Aerospace engineering  
Ingénierie aérospatiale |
| PE8_2 | Chemical engineering, technical chemistry  
génie chimique, chimie technique |
| PE8_3 | Civil engineering, maritime/hydraulic engineering, geotechnics, waste treatment  
Génie civil, génie maritime/hydraulique, géotechnique, traitement des déchets |
| PE8_4 | Computational engineering  
Ingénierie par l’informatique |
| PE8_5 | Fluid mechanics, hydraulic-, turbo-, and piston engines  
Mécanique des fluides, moteurs hydrauliques, turbo et à pistons |
| PE8_6 | Energy systems (production, distribution, application)  
Systèmes énergétiques (production, distribution, application) |
| PE8_7 | Micro(system) engineering,  
micro-ingénierie (des systèmes) |
<table>
<thead>
<tr>
<th>Code</th>
<th>Description</th>
</tr>
</thead>
</table>
| PE8_8 | Mechanical and manufacturing engineering (shaping, mounting, joining, separation)  
Ingénierie mécanique et de fabrication (mise en forme, montage, assemblage, séparation) |
| PE8_9 | Materials engineering (biomaterials, metals, ceramics, polymers, composites, …)  
Ingénierie des matériaux (biomatériaux, métaux, céramiques, polymères, composites, …) |
| PE8_10 | Production technology, process engineering  
Technologie de la production, ingénierie des procédés |
| PE8_11 | Product design, ergonomics, man-machine interfaces  
Design de produit, ergonomie, interface homme-machine |
| PE8_12 | Lightweight construction, textile technology  
Construction légère, technologie textile |
| PE8_13 | Industrial bioengineering  
Bioingénierie industrielle |
| PE8_14 | Industrial biofuel production  
Production industrielle de biocarburants |
| SEN-4 | Sciences Exactes et Naturelles – 4  
|       | Exact and Natural Sciences – 4 |
|       | physical geography, geology, geophysics, meteorology, oceanography, climatology, ecology,  
|       | global environmental change, biogeochemical cycles, natural resources management (based  
|       | on ERC-PE10)  
|       | géographie physique, géologie, géophysique, météorologie, océanographie, climatologie,  
|       | écologie, changements environnementaux à l'échelle planétaire, cycles biogéochimiques,  
|       | gestion des ressources naturelles (basé sur ERC-PE10) |
|       | PE10_1 Atmospheric chemistry, atmospheric composition, air pollution  
|       | Chimie de l'atmosphère, composition de l'atmosphère, pollution de l'air |
|       | PE10_2 Meteorology, atmospheric physics and dynamics  
|       | Météorologie, physique atmosphérique, dynamique de l'atmosphère |
|       | PE10_3 Climatology and climate change  
|       | Climatologie et changement climatique |
|       | PE10_4 Terrestrial ecology, land cover change  
|       | Ecologie terrestre, modifications de l'occupation du sol |
|       | PE10_5 Geology, tectonics, volcanology,  
|       | Géologie, tectonique, volcanologie |
|       | PE10_6 Palaeoclimatology, palaeoecology  
|       | Paléoclimatologie, paléécologie |
|       | PE10_7 Physics of earth's interior, seismology, volcanology  
|       | Physique de l'intérieur de la terre, sismologie, volcanologie |
|       | PE10_8 Oceanography (physical, chemical, biological)  
|       | Océanographie (physique, chimique, biologique) |
|       | PE10_9 Biogeochemistry, biogeochemical cycles, environmental chemistry  
|       | Biogéochimie, cycles biogéochimiques, chimie environnementale |
|       | PE10_10 Mineralogy, petrology, igneous petrology, metamorphic petrology  
|       | Minéralogie, pétrologie, métapétrologie, métamorphisme des roches |
|       | PE10_11 Geochemistry, crystal chemistry, isotopic geochemistry, thermodynamics,  
|       | Géochimie, chimie des cristaux, géochimie des isotopes, thermodynamique |
|       | PE10_12 Sedimentology, soil science, palaeontology, earth evolution  
|       | Sédimentologie, sciences du sol, paléontologie, évolution de la terre |
|       | PE10_13 Physical geography  
|       | Géographie physique |
|       | PE10_14 Earth observations from space/remote sensing  
|       | Observations de la terre depuis l'espace/ télédétection |
|       | PE10_15 Geomagnetism, paleomagnetism  
|       | Géomagnétisme, paléomagnétisme |
|       | PE10_16 Ozone, upper atmosphere, ionosphere  
|       | Ozone, haute atmosphère, ionosphère |
|       | PE10_17 Hydrology, water and soil pollution  
|       | Hydrologie, pollution de l'eau et du sol |

|       | evolution, ecology, animal behaviour, population biology, biodiversity, biogeography, marine  
|       | biology, eco-toxicology, prokaryotic biology (based on ERC-LS8)  
|       | évolution, écologie, comportement animal, biologie des populations, biodiversité,  
|       | biogéographie, biologie marine, écotoxicologie, biologie des procaryotes (basé sur ERCLS8) |
|       | LS8_1 Ecology (theoretical, community, population, microbial, evolutionary ecology)  
|       | Ecologie (théorique, communautaire, des populations, microbienne, de l'évolution) |
|       | LS8_2 Population biology, population dynamics, population genetics, plant-animal interactions  
|       | Biologie des populations, dynamique des populations, génétique des populations, interactions plantes-animaux |
|       | LS8_3 Systems eEvolution, biological adaptation, phylogenetics, systematics  
|       | Evolution des systèmes, adaptation biologique, phylogénétique, systématique |
|       | LS8_4 Biodiversity, comparative biology  
|       | Biodiversité, biologie comparée |
|       | LS8_5 Conservation biology, ecology, genetics  
|       | Biologie de la conservation, écologie, génétique |
|       | LS8_6 Biogeography  
|       | Biogéographie |
|       | LS8_7 Animal behaviour (behavioural ecology, animal communication)  
|       | Comportement animal (écologie comportementale, communication animale) |
|       | LS8_8 Environmental and marine biology  
|       | Biologie environnementale et biologie marine |
|       | LS8_9 Environmental toxicology  
|       | Toxicologie environnementale |
|       | LS8_10 Prokaryotic biology  
|       | Biologie des procaryotes |
|       | LS8_11 Symbiosis  
<p>|       | Symbiose |</p>
<table>
<thead>
<tr>
<th>LS9_1</th>
<th>Genetic engineering, transgenic organisms, recombinant proteins, biosensors</th>
</tr>
</thead>
<tbody>
<tr>
<td>LS9_2</td>
<td>Synthetic biology and new bio-engineering concepts</td>
</tr>
<tr>
<td>LS9_3</td>
<td>Agriculture related to animal husbandry, dairying, livestock raising</td>
</tr>
<tr>
<td>LS9_4</td>
<td>Aquaculture, fisheries</td>
</tr>
<tr>
<td>LS9_5</td>
<td>Agriculture related to crop production, soil biology and cultivation, applied plant biology</td>
</tr>
<tr>
<td>LS9_6</td>
<td>Food sciences</td>
</tr>
<tr>
<td>LS9_7</td>
<td>Forestry, biomass production (e.g. for biofuels)</td>
</tr>
<tr>
<td>LS9_8</td>
<td>Environmental biotechnology, bioremediation, biodegradation</td>
</tr>
<tr>
<td>LS9_9</td>
<td>Biotechnology, bioreactors, applied microbiology</td>
</tr>
<tr>
<td>LS9_10</td>
<td>Biomimetics</td>
</tr>
<tr>
<td>LS9_11</td>
<td>Biohazards, biological containment, biosafety, biosecurity</td>
</tr>
</tbody>
</table>
| SVS-1 | Sciences de la Vie et de la Santé – 1  
<table>
<thead>
<tr>
<th></th>
<th>Life and Health Sciences – 1</th>
</tr>
</thead>
</table>
|       | molecular biology, biochemistry, biophysics, structural biology, biochemistry of signal transduction (based on ERC-LS1)  
|       | biologie moléculaire, biochimie, biophysique, biologie structurale, biochimie de la transduction du signal (basé sur ERC-LS1) |
| LS1_1 | Molecular biology and interactions  
|       | Biologie moléculaire et interactions |
| LS1_2 | General biochemistry and metabolism  
|       | Biochimie générale et métabolisme |
| LS1_3 | DNA biosynthesis, modification, repair and degradation  
|       | Biosynthèse, modification, réparation et dégradation de l'ADN |
| LS1_4 | RNA synthesis, processing, modification and degradation  
|       | Synthèse, maturation, modification et dégradation de l'ARN |
| LS1_5 | Protein synthesis, modification and turnover  
|       | Synthèse, modification et renouvellement des protéines |
| LS1_6 | Biophysics  
|       | Biophysique |
| LS1_7 | Structural biology (crystallography, NMR, EM)  
|       | Biologie structurale (cristallographie, RMN, microscopie électronique) |
| LS1_8 | Biochemistry of signal transduction  
|       | Biochimie de transmission des signaux |
|       | genetics, population genetics, molecular genetics, genomics, transcriptomics, proteomics, metabolomics, bioinformatics, computational biology, biostatistics, biological modelling and simulation, systems biology, genetic epidemiology (based on ERC-LS2)  
|       | génétique, génétique des populations, génétique moléculaire, génomique, transcriptomique, protéomique, métabolomique, bioinformatique, biologie numérique, biostatistique, simulation et modélisation biologiques, systèmes biologiques, épidémiologie génétique (basé sur ERC-LS2) |
| LS2_1 | Genomics, comparative genomics, functional genomics  
|       | Génomique, génomique comparée, génomique fonctionnelle |
| LS2_2 | Transcriptomics  
|       | Transcriptomique |
| LS2_3 | Proteomics  
|       | Protéomique |
| LS2_4 | Metabolomics  
|       | Métabolomique |
| LS2_5 | Glycomics  
|       | Glycomique |
| LS2_6 | Molecular genetics, reverse genetics and RNAi  
|       | Génétique moléculaire, génétique inverse et interférence ARN |
| LS2_7 | Quantitative genetics  
|       | Génétique quantitative |
| LS2_8 | Epigenetics and gene regulation  
|       | Epigénétique et régulation génétique |
| LS2_9 | Genetic epidemiology  
|       | Épidémiologie génétique |
| LS2_10 | Bioinformatics  
|       | Bioinformatique |
| LS2_11 | Computational biology  
|       | Biologie numérique |
| LS2_12 | Biostatistics  
|       | Biostatistique |
| LS2_13 | Systems biology  
|       | Biologie des systèmes |
| LS2_14 | Biological systems analysis, modelling and simulation  
|       | Analyse, modélisation et simulation des systèmes biologiques |
| FNRS-30 | Genetic diagnostic tools, pharmacogenetics  
|       | Outils de diagnostic génétique, pharmacogénomique |
|       | cell biology, cell physiology, signal transduction, organogenesis, developmental genetics, pattern formation in plants and animals (based on ERC-LS3)  
|       | biologie cellulaire, physiologie cellulaire, transduction du signal, organogénèse, génétique du développement, plan d’organisation chez les plantes et les animaux (basé sur ERC-LS3) |
| LS3_1 | Morphology and functional imaging of cells  
|       | Morphologie et imagerie fonctionnelle des cellules |
| LS3_2 | Cell biology and molecular transport mechanisms  
|       | Biologie cellulaire et mécanismes de transport moléculaires |
| LS3_3 | Cell cycle and division  
|       | Cycle cellulaire et division |
| LS3_4 | Apoptosis  
<p>|       | Apoptose |
| LS3_5 | Cell differentiation, physiology and dynamics        |
| LS3_6 | Organelle biology                                   |
| LS3_7 | Cell signalling and cellular interactions           |
| LS3_8 | Signal transduction                                 |
| LS3_9 | Development, developmental genetics, pattern formation and embryology in animals |
| LS3_10| Development, developmental genetics, pattern formation and embryology in plants |
| LS3_11| Cell genetics                                       |
| LS3_12| Stem cell biology                                   |
| FNRS-36| Stem cell therapy, regenerative medicine            |</p>
<table>
<thead>
<tr>
<th>SVS-2</th>
<th>Sciences de la Vie et de la Santé – 2</th>
<th>Life and Health Sciences – 2</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>organ physiology, pathophysiology, endocrinology, metabolism, ageing, regeneration, tumorigenesis, cardiovascular disease, metabolic syndrome (based on ERC-LS4)</td>
<td>physiologie des organes, physiopathologie, endocrinologie, métabolisme, vieillissement, régénération, tumorigénèse, maladies cardio-vasculaires, syndrôme métabolique (basé sur ERC-LS4)</td>
</tr>
<tr>
<td>LS4_1</td>
<td>Organ physiology</td>
<td>Physiologie des organes</td>
</tr>
<tr>
<td>LS4_2</td>
<td>Comparative physiology</td>
<td>Physiologie comparée</td>
</tr>
<tr>
<td>LS4_3</td>
<td>Endocrinology and its biological basis</td>
<td>Endocrinologie et ses bases biologiques</td>
</tr>
<tr>
<td>LS4_4</td>
<td>Ageing and its biological basis</td>
<td>Vieillissement et ses bases biologiques</td>
</tr>
<tr>
<td>LS4_5</td>
<td>Metabolism, biological basis of metabolism related disorders</td>
<td>Métabolisme, bases biologiques des troubles du métabolisme</td>
</tr>
<tr>
<td>LS4_6</td>
<td>Cancer and its biological basis</td>
<td>Cancer et ses bases biologiques</td>
</tr>
<tr>
<td>LS4_7</td>
<td>Cardiovascular diseases and its biological basis</td>
<td>Maladies cardio-vasculaires et ses bases biologiques</td>
</tr>
<tr>
<td>LS4_8</td>
<td>Non-communicable diseases (except for neural/psychiatric, immunity-related, metabolism-related disorders, cancer and cardiovascular diseases)</td>
<td>Maladies non-transmissibles (sauf maladies neuro-psychiatriques, maladies immunitaires, troubles du métabolisme, cancer et maladies cardio-vasculaires)</td>
</tr>
<tr>
<td></td>
<td><strong>immunobiology, aetiology of immune disorders, microbiology, virology, parasitology, global and other infectious diseases, population dynamics of infectious diseases, veterinary medicine (based on ERC-LS6)</strong></td>
<td><strong>immunobiologie, étiologie des troubles immunitaires, microbiologie, virologie, parasitologie, maladies infectieuses à l’échelle de la planète et autres, dynamique de population des maladies infectieuses, médecine vétérinaire (basé sur ERC-LS6)</strong></td>
</tr>
<tr>
<td>LS6_1</td>
<td>Innate immunity</td>
<td>Immunité innée</td>
</tr>
<tr>
<td>LS6_2</td>
<td>Adaptive immunity</td>
<td>Immunité adaptative</td>
</tr>
<tr>
<td>LS6_3</td>
<td>Phagocytosis and cellular immunity</td>
<td>Phagocytose et immunité cellulaire</td>
</tr>
<tr>
<td>LS6_4</td>
<td>Immunosignaling</td>
<td>Signalisation de la réponse immunitaire</td>
</tr>
<tr>
<td>LS6_5</td>
<td>Immunological memory and tolerance</td>
<td>Mémoire immunitaire et immunotolérance</td>
</tr>
<tr>
<td>LS6_6</td>
<td>Immunogenetics</td>
<td>Immunogénétique</td>
</tr>
<tr>
<td>LS6_7</td>
<td>Microbiology</td>
<td>Microbiologie</td>
</tr>
<tr>
<td>LS6_8</td>
<td>Virology</td>
<td>Virologie</td>
</tr>
<tr>
<td>LS6_9</td>
<td>Bacteriology</td>
<td>Bactériologie</td>
</tr>
<tr>
<td>LS6_10</td>
<td>Parasitology</td>
<td>Parasitologie</td>
</tr>
<tr>
<td>LS6_11</td>
<td>Prevention and treatment of infection by pathogens (e.g. vaccination, antibiotics, fungicide)</td>
<td>Prévention et traitement des infections à agents pathogènes (ex: vaccination, antibiotiques, fongicides)</td>
</tr>
<tr>
<td>LS6_12</td>
<td>Biological basis of immunity related disorders</td>
<td>Bases biologiques des troubles immunitaires</td>
</tr>
<tr>
<td>LS6_13</td>
<td>Veterinary medicine</td>
<td>Médecine vétérinaire</td>
</tr>
</tbody>
</table>
| LSS_1 | Neuroanatomy and neurosurgery  

Neuroanatomie et neurochirurgie |
| LSS_2 | Neurophysiology  

Neurophysiologie |
| LSS_3 | Neurochemistry and neuropharmacology  

Neurochimie et neuropharmacologie |
| LSS_4 | Sensory systems (e.g. visual system, auditory system)  

Système sensoriel (ex : système visuel, système auditif) |
| LSS_5 | Mechanisms of pain  

Mécanismes de la douleur |
| LSS_6 | Developmental neurobiology  

Neurobiologie du développement |
| LSS_7 | Cognition (e.g. learning, memory, emotions, speech)  

Cognition (ex : apprentissage, mémoire, émotions, discours) |
| LSS_8 | Behavioral neuroscience (e.g. sleep, consciousness, handedness)  

Neurosciences comportementale (ex : sommeil, conscience, latéralisation) |
| LSS_9 | Systems neuroscience  

Neurosciences des systèmes |
| LSS_10 | Neuroimaging and computational neuroscience  

Imagerie neurologique et informatique pour les neurosciences |
| LSS_11 | Neurological disorders (e.g. Alzheimer's disease, Huntington's disease, Parkinson's disease)  

Troubles neurologiques (ex : maladie d'Alzheimer, maladie de Huntington, maladie de Parkinson) |
| LSS_12 | Psychiatric disorders (e.g. schizophrenia, autism, Tourette's syndrome, obsessive-compulsive disorder, depression, bipolar disorder, attention deficit hyperactivity disorder)  

Troubles psychiatriques (ex : schizophrénie, autisme, syndrome de Tourette, troubles obsessionnels compulsifs, dépression, troubles bipolaires, troubles de l'attention avec hyperactivité) |
| SVS-4  | Sciences de la Vie et de la Santé – 4  
|       | Life and Health Sciences – 4 |
|       | aetiology, diagnosis and treatment of disease, public health, epidemiology, pharmacy, 
|       | pharmacology, clinical medicine, regenerative medicine, medical ethics (based on ERC-LS7) |
| LS7_4 | Analgesia  
|       | Analgésie |
| LS7_5 | Toxicology  
|       | Toxicologie |
| LS7_8 | Radiation therapy  
|       | Radiothérapie |
| LS7_10 | Public health and epidemiology  
|       | Santé publique et épidémiologie |
| LS7_11 | Environment and health risks including radiation  
|       | Risques sanitaires et environnementaux y compris les radiations |
| LS7_12 | Occupational medicine  
|       | Médecine du travail |
| LS7_13 | Medical ethics  
|       | Éthique médicale |
| FNRS-25 | Cell therapy, immunotherapy and immunoprevention  
|       | Thérapie cellulaire, immunothérapie et immunoprévention |

| FNRS-26/FRSM | Translational research  
|              | - Clinical research on cardio-vascular diseases |
|              | - Clinical research on renal diseases |
|              | - Clinical research on gastro and hepato pathological diseases |
|              | - Clinical research on rhumatologic diseases |
|              | - Clinical research on metabolic syndrome |
|              | - Clinical research on diabetes |
|              | - Clinical research on pneumologic diseases |
|              | - Clinical research in oncology |
|              | - Medical statistics |

| FNRS-32/FRSM | Recherche translationnelle  
|              | - Recherche clinique : maladies cardio-vasculaires |
|              | - Recherche clinique : maladies néphrologiques |
|              | - Recherche clinique : maladies gastro-enterologiques et hépatologiques |
|              | - Recherche clinique : maladies rhumatismale |
|              | - Recherche clinique : syndrome métabolique |
|              | - Recherche clinique : diabète |
|              | - Recherche clinique : maladies pneumologiques |
|              | - Recherche clinique : oncologie |
|              | - Biostatistiques et Statistiques médicales |

| FNRS-33 | Dentistry  
|         | Dentisterie |
| FNRS-34 | Pharmaceutical sciences  
|         | Sciences pharmaceutiques |
| FNRS-37 | Medical and pharmaceutical engineering and technology  
|         | Ingénierie et technologie médicales et pharmaceutiques |
| FNRS-38 | Bioanalysis and diagnostic tools (e.g. : imaging)  
|         | Bioanalyses et outils de diagnostic (ex : imagerie) |
| FNRS-39 | Pharmacology, drug discovery and design, drug therapy, clinical pharmacology  
|         | Pharmacologie, découverte et conception de médicaments, thérapie médicamenteuse et pharmacologie clinique |
| FNRS-40 | Surgery and organ transplantation  
|         | Chirurgie et transplantation d’organes |
| FNRS-41 | Health services, health and pharmaceutical care research  
|         | Services de santé, recherche en soins de santé et suivi pharmaceutique |
| FNRS-42 | Gynaecology, obstetrics  
|         | Gynécologie, obstétrique |
| IDR-32 | Gender Studies  
|         | Etudes de genre |
### Foresight

**Développement durable**

Tout projet de recherche dont l’objectif est de s’attaquer à un problème en rapport avec le développement durable (aspects sciences de la nature, sciences appliquées, sciences humaines et sociales)

*Any research project aiming at addressing a problem related to sustainable development (in any aspect: natural sciences, applied sciences, social sciences and humanities)*

<table>
<thead>
<tr>
<th>IDR</th>
<th>Environment and sustainability Environnement et développement durable</th>
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<td>IDR-13</td>
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<td>IDR-14</td>
<td>Social and industrial ecology Ecologie sociale et industrielle</td>
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<td>IDR-15</td>
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<td>IDR-16</td>
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<td>IDR-17</td>
<td>Population dynamics Dynamique des populations</td>
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<td>Transportation Transports</td>
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<td>IDR-20</td>
<td>Sustainable architecture Architecture durable</td>
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<td>Integrated farming Agriculture raisonnée</td>
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<td>Carbon emissions and product life cycle Bilan carbone</td>
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<td>IDR-31</td>
<td>**Fonds de la Recherche Scientifique – FNRS</td>
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Release notes

Sept. 2015: adding of the descriptor field ‘IDR-32 Gender Studies / IDR-32 Etudes de genre’
Sept. 2015: ajout du champ descripteur ‘IDR-32 Gender Studies / IDR-32 Etudes de genre’