Guide for Applicants

Year 2018
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.
TABLE OF CONTENTS

1. CALLS FOR PROPOSALS OF THE FNRS ................................. 5
   1.1 THE FNRS & ITS FINANCIAL ALLOCATIONS .......................... 5
      1.1.1 THE FNRS INSTRUMENTS AND THE BOTTOM-UP APPROACH ........ 5
      1.1.2 CALLS FOR PROPOSALS ............................................. 5
      1.1.3 PERSONAL DATA PROCESSING ......................................... 5
   1.2 SUBMISSION OF A PROPOSAL ........................................... 6
      1.2.1 ONLINE SUBMISSION: SEMAPHORE, THE WEB-BASED APPLICATION .... 6
   1.3 THE CONTENT OF A PROPOSAL ......................................... 7
      1.3.1 GENERAL STRUCTURE ................................................ 7
      1.3.2 ETHICAL ASPECTS ................................................... 7
      1.3.3 LIST OF PUBLICATIONS ............................................. 8
      1.3.4 SUMMARY SHEET OF THE PROPOSAL ............................... 10
   1.4 EX-ANTE EVALUATION PROCESS ...................................... 12
   1.5 FUNDING DECISION AND FINALISATION .............................. 13
2. THE “GRANTS AND FELLOWSHIPS” CALL .................................. 14
   2.1 THE RESEARCHERS INSTRUMENTS: COMMON CONDITIONS ............. 14
      2.1.1 ELIGIBILITY CRITERIA (MAIN INSTRUMENTS) ..................... 14
      2.1.2 CONDITIONS CONCERNING THE APPLICANT ...................... 14
      2.1.3 VALIDATION OF THE PROPOSAL .................................... 15
      2.1.4 TYPICAL CONTENT OF A “RESEARCHER” PROPOSAL ............... 15
   2.2 DOCTORAL RESEARCHERS .............................................. 17
      2.2.1 KEY DATES OF THE CALL 2018 FOR DOCTORAL RESEARCHERS .... 18
      2.2.2 FELLOWSHIP FOR RESEARCH FELLOWS (FULL-TIME) ............ 18
         2.2.2.1 Research Fellow Fellowship (ASP) Specific appendices, initial term: 2 years ............ 18
         2.2.2.2 Research Fellow (ASP - Aspirant), initial term: 2 years .......... 19
         2.2.2.3 Research Fellow renewal .................................... 20
            (ASP-REN - Aspirant renouvellement): maximum 2 years ............. 20
      2.2.3 PART-TIME FELLOWSHIPS FOR CLINICAL DOCTORS .......... 20
         2.2.3.1 Medical Doctor Applicant to an MSc and a Ph.D. ............... 21
            (CSD - Candidat spécialiste doctorant), initial term: 2 years .......... 21
         2.2.3.2 Medical Doctor Applicant to an MSc and a Ph.D. renewal .......... 21
            (CSD-REN - Spécialiste doctorant renouvellement): .................. 21
            2-year fellowship renewable twice .................................. 22
         2.2.3.3 Fellowship for Clinical Master Specialist Applicant to a Ph.D. ............. 22
            (SD - Spécialiste doctorant), initial term: 2 years .................... 22
         2.2.3.4 Clinical Master Specialist Applicant to a Ph.D. renewal .......... 23
            (SD-REN - Spécialiste doctorant renouvellement): maximum 2 years ....... 23
      2.2.4 PART-TIME VETERINARY MD. PH.D. STUDENT FELLOWSHIP .... 23
         2.2.4.1 Veterinary MD. Ph.D. Student ................................... 24
            (VETE-CCD - Vétérinaire Clinicien-Chercheur Doctorant), initial term: 2 years .......... 24
      2.2.5 SPECIAL DOCTORAL GRANT FOR SECONDARY EDUCATION TEACHERS (1 YEAR) .... 24
         2.2.5.1 Special Doctoral Grant for secondary education teachers (1 year) ............ 25
            (BSD - Bourse spéciale de doctorat) .................................. 25
   2.3 POSTDOCTORAL RESEARCHERS ....................................... 27
      2.3.1 KEY DATES OF THE CALL 2018 FOR POSTDOCTORAL RESEARCHERS .... 27
      2.3.2 POSTDOCTORAL RESEARCHER (FULL-TIME) ......................... 27
         2.3.2.1 Postdoctoral Researcher ........................................ 27
            (CR - Chargé de recherches): 3 years ................................ 27
      2.3.3 PART-TIME POSTDOCTORAL FELLOWSHIP FOR CLINICAL DOCTORS .... 28

FNRS – GUIDE FOR APPLICANTS 2018
2.3.3.1 Fellowship for Post-doctorate Clinical Master Specialists
(SPD - Spécialiste postdoctorant), initial term: 2 years
2.3.3.2 Post-doctorate Clinical Master Specialist Renewal Fellowship
(SPD-REN - Spécialiste postdoctorant renouvellement):

2-year fellowship renewable twice

2.4 EXPERIENCED RESEARCHERS
2.4.1 FELLOWSHIP FOR RESEARCH ASSOCIATES
(CQ - Chercheur qualifié)
2.4.2 PROMOTION: SENIOR RESEARCH ASSOCIATE
(MR - Maître de recherches)
2.4.3 PROMOTION: RESEARCH DIRECTOR
(DR - Directeur de recherches)

2.5 ESTABLISHMENT IN THE FRENCH-SPEAKING COMMUNITY OF BELGIUM (CFB)
2.5.1 ULYSSE INCENTIVE GRANT FOR MOBILITY IN SCIENTIFIC RESEARCH
(MISU - Mandat d’Impulsion Scientifique - Mobilité Ulysse), initial term: 2 years
2.5.2 M.I.S.-ULYSSE, EXTENSION (MISU-PROL): 1 YEAR

Appendice

FNRS Scientific Commissions and descriptors
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 applying under Grants and Fellowships Call may add them to their application file by 1st May 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 the submitted research project. The ethical aspects of a proposal must be described in the scientific section by the applicant in the application form. The way the ethical problems related to the project are handled will be considered in the frame of the scientific evaluation of the proposal.

The possible ethical problems related to research may relate to the use and storage of private data, the handling of substances that may cause environmental or biodiversity damage and the research on animals or human beings, for instance (non-exhaustive list). In case of granting, applicants concerned by ethical questions will be required to submit their questionnaire accompanied by the opinion of the Ethics Committee to the FNRS. Funding will be subject to a favorable opinion of the Committee (decision of the Board of Trustees of the F.R.S.-FNRS on 4 October 2017). In all cases and regardless of their scientific

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.
Field, researchers are expected to observe the Ethics Code for Scientific Research in Belgium, which is supported by the Science Policy PPS, which is a joint initiative of the Académie Royale des Sciences, des Lettres et des Beaux Arts de Belgique, the Académie Royale de Médecine de Belgique, the Koninklijke Vlaamse Academie van België voor Wetenschappen en Kunsten and the Koninklijke Academie voor Geneeskunde van België. The Code was published in autumn 2009.

1.3.3 LIST OF PUBLICATIONS

The list of publications and possible patents represents the scientific work of the applicant(s), and thus is an important part of the entire proposal, which will be taken into account during the evaluation procedure. Unless explicitly mentioned in the specific conditions of a given instrument, only published or accepted publications will be considered. The list of publications is structured as follows and in 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.

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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. In case of publication accepted after the validation deadline set for the applicant, applicants applying under Grants and Fellowships Call may add them to their application file by 1st May 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.
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 and in English, (of a maximum of 200 characters each);
- the summary linked to the proposal, in French and in English, (of a maximum of 2000 characters each);
- 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 the renewal of a proposal that has already been reviewed in a previous meeting, the Board of Trustees of the FNRS bases the funding decision on opinions, which recommend or not the continuation of the funding for a new period. Depending on the instruments, the said opinions can come from academic authorities, a dedicated Commission, etc.

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 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:**
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):10
- - for Research Fellow applicants: see key dates of the call under section 2.2.1.,
- - for Postdoctoral Researcher or Research Associate applicants: see key dates of the call under section 2.3.1.

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

10 The date of reference is the validation deadline fixed for the academic authorities (rectors).
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 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

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

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

• the applicant: factual elements demonstrating her/his qualities, past achievements 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 maximum (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 1st May the year of the considered Grants and Fellowships Call, at the latest, as a follow-up to their application file.

- The result of the Master thesis, if available at the latest by the validation deadline 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 **KEY DATES OF THE CALL 2018 FOR DOCTORAL RESEARCHERS**

<table>
<thead>
<tr>
<th>GRANTS AND FELLOWSHIPS CALL 2018</th>
<th>DEADLINE TO ACCESS THE ELECTRONIC FORM</th>
<th>DEADLINE for the ELECTRONIC VALIDATION</th>
</tr>
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<tbody>
<tr>
<td><strong>DOCTORAL RESEARCHER</strong></td>
<td><strong>APPLICANT</strong></td>
<td><strong>PROMOTER</strong></td>
</tr>
<tr>
<td>Research Fellow</td>
<td>ASP</td>
<td></td>
</tr>
<tr>
<td>Research Fellow renewal</td>
<td>ASP-REN</td>
<td></td>
</tr>
<tr>
<td>Special Doctoral Grant</td>
<td>BSD</td>
<td></td>
</tr>
<tr>
<td>Medical Doctor Applicant to an MSc and a Ph.D.</td>
<td>CSD-REN</td>
<td>Wednesday 21st February At 2 p.m.</td>
</tr>
<tr>
<td>Medical Doctor Applicant to an MSc and a Ph.D. renewal</td>
<td>BSD-REN</td>
<td>Wednesday 21st February At 2 p.m.</td>
</tr>
<tr>
<td>Clinical Master Specialist Applicant to a Ph.D.</td>
<td>SD-REN</td>
<td>Wednesday 21st February At 2 p.m.</td>
</tr>
<tr>
<td>Clinical Master Specialist Applicant to a Ph.D. renewal</td>
<td>SD-REN</td>
<td>Wednesday 21st February At 2 p.m.</td>
</tr>
<tr>
<td>Veterinary MD, Ph.D. Student</td>
<td>VETE-CCD</td>
<td></td>
</tr>
</tbody>
</table>

2.2.2 **FELLOWSHIP FOR RESEARCH FELLOWS (FULL-TIME)**

Operational conditions of the fellowship:
The Research Fellow fellowship aims at the completion of a Ph.D. within 4 years. The fellowship appears in the form of a 2-year grant, which may be renewed for maximum 2 more years, subject to the approval of the authorised academic body.
The doctor who is granted with a Research Fellow fellowship shall decide to suspend a complementary Master degree/medical specialisation during the whole duration of the fellowship.
Holders of a Research Fellow fellowship receive an operating credit under the responsibility of their promoter, which enables them to conduct their research.

2.2.2.1 **Research Fellow Fellowship (ASP)** Specific appendices, initial term: 2 years

In accordance with Article 3, paragraph 1 of the FNRS Rules and regulations for Research Fellows fellowship:

“The ASP 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.”

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All times are Brussels local time.
Situation of the ASP applicant with regard to article 3, paragraph 1 of the Regulations

<table>
<thead>
<tr>
<th>Holder of a degree as referred to in paragraph 1, 1°</th>
<th>Certificate of achievement or a copy of the diploma.</th>
</tr>
</thead>
<tbody>
<tr>
<td>Holder of a degree as referred to in paragraph 1, 2°</td>
<td>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.</td>
</tr>
<tr>
<td>Holder of a degree as referred to in paragraph 1, 3°</td>
<td>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.</td>
</tr>
<tr>
<td>Enrolled in a end-of-cycle Master degree programme as referred to in paragraph 1, 1° and 2°</td>
<td>Certificate of registration to the final year of Master degree.</td>
</tr>
</tbody>
</table>

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

Key dates of the call 2018: see page 18

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\(^\text{14}\)), by the validation deadline fixed for the rector of the host university at the latest.

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\(^{\text{st}}\) October the year of the considered Grants and Fellowships Call).

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 FRCA grant for instance cannot benefit from the maximum duration possible under a FNRS fellowship as it is deducted from the funded period of the FRCA grant.

\(^{14}\) Applicants in this situation are required to enclose to their application file a registration document concerning the specialty in question by the validation deadline fixed for the academic authorities (rectors).
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.

2.2.2.3 Research Fellow renewal
(ASP-REN - Aspirant renouvellement): maximum 2 years
For all ASP-REN applications: Specific appendices

Key dates of the call 2018: see page 18

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 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 the year of the considered Grants and Fellowships Call, at the latest.

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

2.2.3 PART-TIME FELLOWSHIPS FOR CLINICAL DOCTORS
This category is restricted to clinical doctors who wish to dedicate themselves to fundamental research while pursuing a part-time hospital activity.
The promoter of an applicant to a Medical Doctor Applicants to an MSc and a Ph.D. (CSD – Candidat spécialiste doctorant) or a Clinical Master Specialist Applicants to a Ph.D. (SD
– Spécialiste doctorant) fellowships shall be 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). TheFNRS 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 FNRS at the latest on 1st October of the year when the fellowship is granted and shall start.

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

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

**Key dates of the call 2018:** see page 18

**Characteristics of the fellowship:**
This fellowship is intended for doctors in order to carry out a Ph.D. and complete an Advanced Master’s degree simultaneously. The duration of this fellowship is 2 years with the possibility to renew it three times (equivalent to a 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.

**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.

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

For all CSD-REN applications: Specific appendices

Key dates of the call 2018: see page 18

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 the year of the considered Grants and Fellowships Call, 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.

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

For all SD applications: Specific appendices

Key dates of the call 2018: see page 18

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 (equivalent to a maximum duration of 4 years).

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.

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

For all SD-REN applications: Specific appendices

Key dates of the call 2018: see page 18

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 the year of the considered Grants and Fellowships Call, at the latest.

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

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.

2.2.4 PART-TIME VETERINARY MD. PH.D. STUDENT FELLOWSHIP
This category is restricted to veterinary doctors in the course of a clinical specialisation in order to enable them to prepare and present a doctoral thesis, while pursuing a part-time activity, within the framework of their clinical training.

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

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

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

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

For all VETE-CCD applications: Specific appendices

**Key dates of the call 2018:** see page 18

**Eligibility criteria:**
In addition to general criteria applicable to doctoral fellowships, the following criteria are specific to the VETE-CCD:
- Hold the academic degree of Veterinary Doctor,
- Be less than 35 years old by the validation deadline fixed for the academic authorities (rectors) to validate the application,
- Have been involved for at least 2 years in a “Residency training programme” (including internship) approved by the European bodies (European Colleges recognised by the European Board of Veterinary Specialisation), by 1st October of the year during which the fellowship is granted and should start, at the latest.

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

2.2.5 SPECIAL DOCTORAL GRANT FOR SECONDARY EDUCATION TEACHERS (1 YEAR)
Special Doctoral Grants (BSD) are intended for university graduates of the French-speaking Community of Belgium (CFB), teaching in secondary education, benefiting from employment stability and who may be granted a special leave without pay for one year, with the assurance that they will get their position back at the end of that leave, to enable them to complete a research work to obtain a degree of Doctor in a university of the French-speaking Community of Belgium.

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

For all BSD applications: Specific appendices

Key dates of the call 2018: see page 18

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 21st February 2018, add “Appel BSD 2018” 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 the validation deadline fixed for the academic authorities (rectors) at the latest.

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

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

Goals of the instruments:
These fellowships are intended for researchers holding the academic degree of Doctor (with thesis) in order to further develop their research experience. Within the framework of the “researcher” call, two instruments are available for postdoctoral researchers:
• the fellowship for Postdoctoral Researchers, which is a full-time research fellowship (all fields);
• the fellowship for Post-doctorate Clinical Master Specialists, which is a part-time research fellowship intended for accredited specialists.

2.3.1 KEY DATES OF THE CALL 2018 FOR POSTDOCTORAL RESEARCHERS

<table>
<thead>
<tr>
<th>INSTRUMENTS</th>
<th>GRANTS AND FELLOWSHIPS CALL 2018</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>DEADLINE(^1) TO ACCESS THE</td>
</tr>
<tr>
<td></td>
<td>ELECTRONIC FORM</td>
</tr>
<tr>
<td></td>
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</tr>
<tr>
<td>Postdoctoral Researcher</td>
<td>CR</td>
</tr>
<tr>
<td>Post-doctorate Clinical Master Specialist</td>
<td>SPD</td>
</tr>
<tr>
<td>Post-doctorate Clinical Master Specialist renewal</td>
<td>SPD-REN</td>
</tr>
<tr>
<td>Research Associate</td>
<td>CQ</td>
</tr>
<tr>
<td>Senior Research Associate</td>
<td>MR</td>
</tr>
<tr>
<td>Research Director</td>
<td>DR</td>
</tr>
<tr>
<td>Ulysse Incentive Grant for Mobility in Scientific Research</td>
<td>MISU</td>
</tr>
</tbody>
</table>

15 All times are Brussels local time.
16 Applicants to a Postdoctoral Research fellowship who are planning one or several research stays will be required to provide a letter of approval or emails exchanges which demonstrate that formalities are being processed.

2.3.2 POSTDOCTORAL RESEARCHER (FULL-TIME)

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

2.3.2.1 Postdoctoral Researcher\(^6\)
{CR - Chargé de recherches}: 3 years

For all CR applications: **Specific appendices**
Key dates of the call 2018: see page 27

Eligibility criteria:
Applicants to a Postdoctoral Researcher fellowship (CR – Chargé de recherches) must meet one of the two following conditions:
• to hold a doctoral degree (Ph.D.) for maximum 5 years by the validation deadline fixed for the academic authorities (rectors) at the latest
or
• to hold this degree at the latest by 1st May the year of the considered Grants and Fellowships Call (in such case the applicant must upload a sworn statement in the application file).

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

2.3.3 PART-TIME POSTDOCTORAL FELLOWSHIP FOR CLINICAL DOCTORS
This category is restricted to Postdoctoral accredited specialist clinical doctors who wish to dedicate themselves to fundamental research while pursuing a part-time hospital activity.

The promoter of the applicant to a part-time Post-doctorate Clinical Master Specialist (SPD) fellowship shall be 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.
This part-time fellowship is applicable for 2 years, renewable three times (equivalent to a maximum duration of 8 years).

2.3.3.1 Fellowship for Post-doctorate Clinical Master Specialists
(SP - Spécialiste postdoctorant), initial term: 2 years
For all SPD applications: **Specific appendices**

**Key dates of the call 2018**: see page 27

**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 maximum 5 years by the validation deadline fixed for the academic authorities (rectors) at the latest or to hold this degree at the latest by 1st May the year of the considered Grants and Fellowships Call (in such case the applicant must upload a sworn statement in the application file).

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

2.3.3.2 **Post-doctorate Clinical Master Specialist Renewal Fellowship**
(SP-D-REN - Spécialiste postdoctorant renouvellement):
2-year fellowship renewable twice

For all SPD-REN applications: **Specific appendices**

**Key dates of the call 2018**: see page 27

**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 ¹⁷
(CQ - Chercheur qualifié)

For all CQ applications: Specific appendices

Key dates of the call 2018: see page 27

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 by the validation deadline fixed for the academic authorities (rectors) at the latest.

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:
The application for a Research Associate fellowship (CQ) can be made exclusively online through SEMAFORE. 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,

¹⁷ As for Research Associate fellowships, the Scientific Commissions will not suggest the Board of Trustees a ranking but a list of maximum 4 applicants ranked A, who may be nominated during the same year. No recruitment other than among the 4 applicants will be allowed. Thus, the Scientific Commissions make recruitment suggestions and the final selection is made by 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.
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, 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)

For all MR applications: Specific appendices

Key dates of the call 2018: see page 27

Eligibility criteria:
In accordance to Article 10, §1.
Holders of a FNRS CQ fellowship may seek promotion to the MR title as from the beginning of the 8th 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 MR fellowship shall not apply for a new fellowship.
The promotion to the MR title shall not be sought more than three times over a period of nine years.

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.

In support of their application for a promotion as Senior Research Associate, Research Associates must enclose a summary report 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.

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18 A long stay abroad is a key element adding value to the application file.
19 The 12,000-word summary report is available for Scientific Commission members only.
2.4.3 PROMOTION: RESEARCH DIRECTOR
(DR - Directeur de recherches)

Key dates of the call 2018: see page 27

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

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

Submission procedure:
The application for a DR fellowship can be made exclusively online 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:
• 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

For all MISU applications: Specific appendices

Key dates of the call 2018: see page 27

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 dates of the call 2018: see page 27

Submission procedure:
The extension request shall be submitted during the second year of the first fellowship. The FNRS will give the relevant researchers access to the online form on 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>SHS-1</th>
<th>Sciences Humaines et sociales – Human and Social Sciences</th>
</tr>
</thead>
<tbody>
<tr>
<td>SH2_1</td>
<td>Social structure, inequalities, social mobility</td>
</tr>
<tr>
<td>SH2_2</td>
<td>Ageing, work, social policies</td>
</tr>
<tr>
<td>SH2_3</td>
<td>Kinship, cultural dimensions of classification and cognition, individual and social identity, gender</td>
</tr>
<tr>
<td>SH2_4</td>
<td>Myth, ritual, symbolic representations, religious studies</td>
</tr>
<tr>
<td>SH2_5</td>
<td>Ethnography</td>
</tr>
<tr>
<td>SH2_6</td>
<td>Globalization, migration, interethnic relations</td>
</tr>
<tr>
<td>SH2_7</td>
<td>Transformation of societies, democratization, social movements</td>
</tr>
<tr>
<td>SH2_8</td>
<td>Political systems, legitimacy of governance</td>
</tr>
<tr>
<td>SH2_12</td>
<td>Communication networks, media, information society</td>
</tr>
<tr>
<td>SH2_13</td>
<td>Social studies of science and technology, S&amp;T policies, science and society</td>
</tr>
<tr>
<td>FNRS-1</td>
<td>Social anthropology</td>
</tr>
<tr>
<td></td>
<td>Anthropologie sociale</td>
</tr>
<tr>
<td>SH3_2</td>
<td>Environmental regulation and mediation</td>
</tr>
<tr>
<td>SH3_3</td>
<td>Social and industrial ecology</td>
</tr>
<tr>
<td>SH3_4</td>
<td>Geographical information systems, cartography</td>
</tr>
<tr>
<td>SH3_5</td>
<td>Human and social geography</td>
</tr>
<tr>
<td>IDR-1</td>
<td>Demography</td>
</tr>
<tr>
<td>IDR-2</td>
<td>Lifespan education</td>
</tr>
<tr>
<td>IDR-4</td>
<td>Social and geographical mobility</td>
</tr>
<tr>
<td>IDR-6</td>
<td>Cultural diversity</td>
</tr>
<tr>
<td>IDR-8</td>
<td>Democracy</td>
</tr>
<tr>
<td>IDR-9</td>
<td>Family policies</td>
</tr>
<tr>
<td>IDR-10</td>
<td>Regional development</td>
</tr>
<tr>
<td>IDR-11</td>
<td>European integration</td>
</tr>
<tr>
<td>IDR-12</td>
<td>Consumer</td>
</tr>
<tr>
<td>IDR-32</td>
<td>Gender Studies</td>
</tr>
</tbody>
</table>
| SHS-2 | Sciences Humaines et sociales – 2  
Human and Social Sciences – 2 |
|-------|---------------------------------------------------------------|
| **cognition, psychology, education (based on ERC-SH4)**  
cognition, psychologie, sciences de l’éducation (basé sur ERC-SH4) |
| SH4_1 | Evolution of mind and cognitive functions, animal communication  
Evolution de l’esprit et fonctions cognitives, communication animale |
| SH4_2 | Human life-span development  
Développement humain tout au long de la vie |
| SH4_3 | Neuropsychology and cognitive psychology  
Neuropsychologie et psychologie cognitive |
| SH4_7 | Acquisition and knowledge of language: psycholinguistics, neurolinguistics  
Acquisition et connaissance du langage : psycholinguistique et neurolinguistique |
| FNRS-3 | Experimental psychology  
Psychologie expérimentale |
| FNRS-4 | Clinical psychology  
Psychologie clinique |
| FNRS-5 | Social psychology  
Psychologie sociale |
| FNRS-6 | Work and organizational psychology  
Psychologie du travail et des organisations |
| FNRS-7 | Human resources psychology  
Psychologie des ressources humaines |
| FNRS-8 | Health psychology  
Psychologie de la santé |
| FNRS-9 | Experimental psychopathology  
Psychopathologie expérimentale |
| FNRS-27 | Academic teaching and learning processes  
Processus d’enseignement et d’apprentissage en contexte scolaire |
| FNRS-28 | Non academic education and training processes  
Processus d’éducation et de formation non scolaires |
| FNRS-29 | Study of teaching and training systems and policies  
Etude des systèmes et des politiques d’enseignement et de formation |
| FNRS-31 | Language pathologies  
Pathologies du langage |
| IDR-32 | Gender Studies  
Etudes de genre |
**SHS-3**  Sciences Humaines et sociales – 3  
Human and Social Sciences – 3

**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 musiciologie, 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 |

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Fonds de la Recherche Scientifique – FNRS  |  Commissions scientifiques
<table>
<thead>
<tr>
<th>SHS-4</th>
<th>Sciences Humaines et sociales – 4</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Human and Social Sciences – 4</td>
</tr>
<tr>
<td></td>
<td>archaeology, history (based on ERC-SH6)</td>
</tr>
<tr>
<td></td>
<td>archéologie, histoire (basé sur ERC-SH6)</td>
</tr>
<tr>
<td>SH6_1</td>
<td>Archaeology, archaeometry, landscape archaeology</td>
</tr>
<tr>
<td></td>
<td>Archéologie, archéométrie, archéologie du paysage</td>
</tr>
<tr>
<td>SH6_2</td>
<td>Prehistory and protohistory</td>
</tr>
<tr>
<td></td>
<td>Préhistoire et protohistoire</td>
</tr>
<tr>
<td>SH6_3</td>
<td>Ancient history, ancient cultures</td>
</tr>
<tr>
<td></td>
<td>Histoire ancienne, culture ancienne</td>
</tr>
<tr>
<td>SH6_4</td>
<td>Medieval history</td>
</tr>
<tr>
<td></td>
<td>Histoire médiévale</td>
</tr>
<tr>
<td>SH6_5</td>
<td>Modern and contemporary history</td>
</tr>
<tr>
<td></td>
<td>Histoire moderne et contemporaine</td>
</tr>
<tr>
<td>SH6_6</td>
<td>Colonial history, entangled histories, global history</td>
</tr>
<tr>
<td></td>
<td>Histoire coloniale, histoires enchevêtrées, histoire mondiale</td>
</tr>
<tr>
<td>SH6_7</td>
<td>Military history</td>
</tr>
<tr>
<td></td>
<td>Histoire militaire</td>
</tr>
<tr>
<td>SH6_8</td>
<td>Historiography, theory and methods of history</td>
</tr>
<tr>
<td></td>
<td>Historiographie, théories et méthodes de l'histoire</td>
</tr>
<tr>
<td>SH6_9</td>
<td>History of ideas, intellectual history</td>
</tr>
<tr>
<td></td>
<td>Histoire des idées, histoire intellectuelle</td>
</tr>
<tr>
<td>SH6_10</td>
<td>Social, economic, cultural and political history</td>
</tr>
<tr>
<td></td>
<td>Histoire sociale, économique, culturelle et politique</td>
</tr>
<tr>
<td>SH6_11</td>
<td>Collective memories, identities, lieux de mémoire, oral history</td>
</tr>
<tr>
<td></td>
<td>Mémoires collectives, identités, lieux de mémoire, histoire orale</td>
</tr>
<tr>
<td>SH6_12</td>
<td>Cultural heritage</td>
</tr>
<tr>
<td></td>
<td>Patrimoine culturel</td>
</tr>
<tr>
<td>SH2_14</td>
<td>History of science and technology</td>
</tr>
<tr>
<td></td>
<td>Histoire de la science et des technologies</td>
</tr>
<tr>
<td>SH5_7</td>
<td>Museums and exhibitions</td>
</tr>
<tr>
<td></td>
<td>Musées et expositions</td>
</tr>
<tr>
<td>FNRS-10</td>
<td>Religious sciences, humanism or secularism, freemasonry</td>
</tr>
<tr>
<td></td>
<td>Sciences des religions, laïcité, franc-maçonnerie</td>
</tr>
<tr>
<td>FNRS-17</td>
<td>Economic history</td>
</tr>
<tr>
<td></td>
<td>Histoire économique</td>
</tr>
<tr>
<td>FNRS-18</td>
<td>Numismatics, epigraphy and paleography</td>
</tr>
<tr>
<td></td>
<td>Numismatique, épigraphie et paléographie</td>
</tr>
<tr>
<td>FNRS-19</td>
<td>History of music</td>
</tr>
<tr>
<td></td>
<td>Histoire de la musique</td>
</tr>
<tr>
<td>FNRS-20</td>
<td>History of art</td>
</tr>
<tr>
<td></td>
<td>Histoire de l'art</td>
</tr>
<tr>
<td>FNRS-21</td>
<td>History of architecture and urbanism</td>
</tr>
<tr>
<td></td>
<td>Histoire de l'architecture et de l'urbanisme</td>
</tr>
<tr>
<td>FNRS-24</td>
<td>Demographic history</td>
</tr>
<tr>
<td></td>
<td>Démographie historique</td>
</tr>
<tr>
<td>IDR-32</td>
<td>Gender Studies</td>
</tr>
<tr>
<td></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)  
|       | économie, 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  
|       | Macroéconomie, 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  
| IDR-2 | Lifespan education  
|       | Éducation 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  
|       | Études de genre  

**FNRS-2**:  
**Criminology**:  
**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**:  
**Études de genre**
| 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 électroniques des matériaux et du transport |
| PE3_6 | Lattice dynamics
Dynamique réticulaire |
| PE3_7 | Semiconductors
Semi-conducteurs |
| PE3_8 | Superconductivity
Supraconductivité |
| PE3_9 | Superfluids
Superfluides |
| PE3_10 | Spintronics
Spintronique |
| PE3_11 | Magnetism
Magnetisme |
| 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 |
| 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 |

**materials synthesis, structure-properties relations, functional and advanced materials, molecular architecture, organic chemistry (based on ERC-PE5)**  
**synthèse des matériaux, relations structure-proprités, matériaux fonctionnels et avancés, architecture moléculaire, chimie organique (basé sur ERC-PE5)**

| 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 : oxides, 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  
          Biomatiériaux 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 |

**Materials for architecture**  
**Matériaux pour l'architecture**

**Materials for dentistry**  
**Matériaux pour la dentisterie**
### Sciences Exactes et Naturelles – 2

#### Exact and Natural Sciences – 2

**all areas of mathematics, pure and applied, plus mathematical foundations of computer science, mathematical physics and statistics (based on ERC-PE1)**

**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)**

<table>
<thead>
<tr>
<th>PE1_1</th>
<th>Logic and foundations of mathematics</th>
</tr>
</thead>
<tbody>
<tr>
<td>PE1_2</td>
<td>Algebra</td>
</tr>
<tr>
<td>PE1_3</td>
<td>Number theory</td>
</tr>
<tr>
<td>PE1_4</td>
<td>Algebraic and complex geometry</td>
</tr>
<tr>
<td>PE1_5</td>
<td>Geometry</td>
</tr>
<tr>
<td>PE1_6</td>
<td>Topology</td>
</tr>
<tr>
<td>PE1_7</td>
<td>Lie groups, Lie algebras</td>
</tr>
<tr>
<td>PE1_8</td>
<td>Analysis</td>
</tr>
<tr>
<td>PE1_9</td>
<td>Operator algebras and functional analysis</td>
</tr>
<tr>
<td>PE1_10</td>
<td>ODE and dynamical systems</td>
</tr>
<tr>
<td>PE1_11</td>
<td>Partial differential equations</td>
</tr>
<tr>
<td>PE1_12</td>
<td>Mathematical physics</td>
</tr>
<tr>
<td>PE1_13</td>
<td>Probability and statistics</td>
</tr>
<tr>
<td>PE1_14</td>
<td>Combinatorics</td>
</tr>
<tr>
<td>PE1_15</td>
<td>Mathematical aspects of computer science</td>
</tr>
<tr>
<td>PE1_16</td>
<td>Numerical analysis and scientific computing</td>
</tr>
<tr>
<td>PE1_17</td>
<td>Control theory and optimization</td>
</tr>
<tr>
<td>PE1_18</td>
<td>Application of mathematics in sciences</td>
</tr>
</tbody>
</table>

**particle, nuclear, plasma, atomic, molecular, gas, and optical physics (based on ERC-PE2)**

**physique des particules, nucléaire, des plasmas, atomique, moléculaire, des gaz, optique (basé sur ERC-PE2)**

<table>
<thead>
<tr>
<th>PE2_1</th>
<th>Fundamental interactions and fields</th>
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</thead>
<tbody>
<tr>
<td>PE2_2</td>
<td>Particle physics</td>
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<td>PE2_3</td>
<td>Nuclear physics</td>
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<td>PE2_4</td>
<td>Nuclear astrophysics</td>
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<tr>
<td>PE2_5</td>
<td>Gas and plasma physics</td>
</tr>
<tr>
<td>PE2_6</td>
<td>Electromagnetism</td>
</tr>
<tr>
<td>PE2_7</td>
<td>Atomic, molecular physics</td>
</tr>
<tr>
<td>PE2_8</td>
<td>Optics and quantum optics</td>
</tr>
<tr>
<td>PE2_9</td>
<td>Lasers and laser physics</td>
</tr>
<tr>
<td>PE2_10</td>
<td>Acoustics</td>
</tr>
<tr>
<td>PE2_11</td>
<td>Relativity</td>
</tr>
<tr>
<td>PE2_12</td>
<td>Classical physics</td>
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<td>PE2_13</td>
<td>Thermodynamics</td>
</tr>
<tr>
<td>PE2_14</td>
<td>Non-linear physics</td>
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<td>PE2_15</td>
<td>General physics</td>
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<td>Code</td>
<td>Description</td>
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<tr>
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<tr>
<td>PE2_16</td>
<td>Metrology and measurement (Métrie et mesures)</td>
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<tr>
<td>PE2_17</td>
<td>Statistical physics (gases) (Physique statistique (gaz))</td>
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<tr>
<td>PE9_1</td>
<td>Solar and interplanetary physics (Physique solaire et interplanétaire)</td>
</tr>
<tr>
<td>PE9_2</td>
<td>Planetary systems sciences (Sciences des systèmes planétaires)</td>
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<tr>
<td>PE9_3</td>
<td>Interstellar medium (Milieu interstellaire)</td>
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<tr>
<td>PE9_4</td>
<td>Formation of stars and planets (Formation des étoiles et des planètes)</td>
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<tr>
<td>PE9_5</td>
<td>Astrobiology (Astrobiologie)</td>
</tr>
<tr>
<td>PE9_6</td>
<td>Stars and stellar systems (Étoiles et systèmes stellaires)</td>
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<tr>
<td>PE9_7</td>
<td>The Galaxy (La Galaxie)</td>
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<tr>
<td>PE9_8</td>
<td>Formation and evolution of galaxies (Formation et évolution des galaxies)</td>
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<tr>
<td>PE9_9</td>
<td>Clusters of galaxies and large scale structures (Amas de galaxies et structures de grande échelle)</td>
</tr>
<tr>
<td>PE9_10</td>
<td>High energy and particles astronomy – X-rays, cosmic rays, gamma rays, neutrinos (Astronomie des hautes énergies et des particules - rayons X, rayons cosmiques, rayons gamma, neutrinos)</td>
</tr>
<tr>
<td>PE9_11</td>
<td>Relativistic astrophysics (Astrophysique relativiste)</td>
</tr>
<tr>
<td>PE9_12</td>
<td>Dark matter, dark energy (Matière noire, énergie noire)</td>
</tr>
<tr>
<td>PE9_13</td>
<td>Gravitational astronomy (Astronomie gravitationnelle)</td>
</tr>
<tr>
<td>PE9_14</td>
<td>Cosmology (Cosmologie)</td>
</tr>
<tr>
<td>PE9_15</td>
<td>Space Sciences (Sciences de l'espace)</td>
</tr>
<tr>
<td>PE9_16</td>
<td>Very large data bases: archiving, handling and analysis (Très grandes bases de données : archivage, gestion, analyse)</td>
</tr>
<tr>
<td>PE9_17</td>
<td>Instrumentation - telescopes, detectors and techniques (Instrumentation - télescopes, détecteurs et techniques)</td>
</tr>
<tr>
<td>PE9_18</td>
<td>Solar planetology (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, sensors, automation  
|       | Ingénierie des systèmes, capteurs, automatisation |
| PE7_6 | Micro- and nanoelectronics, optoelectronics  
|       | Micro- et nanoélectronique, 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)  
<p>|       | Micro(system) engineering, micro-ingénierie (des systèmes) |</p>
<table>
<thead>
<tr>
<th>Code</th>
<th>Description</th>
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<tbody>
<tr>
<td>PE8_8</td>
<td>Mechanical and manufacturing engineering (shaping, mounting, joining, separation)</td>
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<td>Ingénierie mécanique et de fabrication (mise en forme, montage, assemblage, séparation)</td>
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<td>PE8_9</td>
<td>Materials engineering (biomaterials, metals, ceramics, polymers, composites, …)</td>
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<tr>
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<td>Ingénierie des matériaux (biomatériaux, métaux, céramiques, polymères, composites, …)</td>
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<tr>
<td>PE8_10</td>
<td>Production technology, process engineering</td>
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<tr>
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<td>Technologie de la production, ingénierie des procédés</td>
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<tr>
<td>PE8_11</td>
<td>Product design, ergonomics, man-machine interfaces</td>
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<tr>
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<td>Design de produit, ergonomie, interface homme-machine</td>
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<td>PE8_12</td>
<td>Lightweight construction, textile technology</td>
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<td>Construction légère, technologie textile</td>
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<td>PE8_13</td>
<td>Industrial bioengineering</td>
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<td>Bioingénierie industrielle</td>
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<td>PE8_14</td>
<td>Industrial biofuel production</td>
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<td>Production industrielle de biocarburants</td>
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<td>Subject</td>
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<tr>
<td>PE10_1</td>
<td>Atmospheric chemistry, atmospheric composition, air pollution</td>
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<td>Chimie de l'atmosphère, composition de l'atmosphère, pollution de l'air</td>
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<td>PE10_3</td>
<td>Climatology and climate change</td>
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<td>Climatologie et changement climatique</td>
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<td>PE10_5</td>
<td>Geology, tectonics, volcanology</td>
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<tr>
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<td>Géologie, tectonique, volcanologie</td>
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<tr>
<td>PE10_7</td>
<td>Physics of earth's interior, seismology, volcanology</td>
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<tr>
<td>PE10_8</td>
<td>Oceanography (physical, chemical, biological)</td>
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<tr>
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<td>Océanographie (physique, chimique, biologique)</td>
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<td>PE10_10</td>
<td>Mineralogy, petrology, igneous petrology, metamorphic petrology</td>
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<tr>
<td>PE10_11</td>
<td>Geochemistry, crystal chemistry, isotope geochemistry, thermodynamics,</td>
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<td>Géochimie, chimie des cristaux, géochimie des isotopes, thermodynamique</td>
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<tr>
<td>PE10_12</td>
<td>Sedimentology, soil science, palaeontology, earth evolution</td>
</tr>
<tr>
<td>PE10_13</td>
<td>Physical geography</td>
</tr>
<tr>
<td>PE10_14</td>
<td>Earth observations from space/remote sensing</td>
</tr>
<tr>
<td>PE10_15</td>
<td>Geomagnetism, paleomagnetism</td>
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<tr>
<td>PE10_16</td>
<td>Ozone, upper atmosphere, ionosphere</td>
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<tr>
<td>PE10_17</td>
<td>Hydrology, water and soil pollution</td>
</tr>
<tr>
<td>PE10_18</td>
<td>Ecology (theoretical, community, population, microbial, evolutionary ecology)</td>
</tr>
<tr>
<td>LS8_1</td>
<td>Ecology (theoretical, community, population, microbial, evolutionary ecology)</td>
</tr>
<tr>
<td>LS8_2</td>
<td>Population biology, population dynamics, population genetics, plant-animal interactions</td>
</tr>
<tr>
<td>LS8_3</td>
<td>Biologie des populations, dynamique des populations, génétique des populations, interactions plantes-animaux</td>
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<tr>
<td>LS8_4</td>
<td>Biogeography</td>
</tr>
<tr>
<td>LS8_5</td>
<td>Animal behaviour (behavioural ecology, animal communication)</td>
</tr>
<tr>
<td>LS8_6</td>
<td>Environmental and marine biology</td>
</tr>
<tr>
<td>LS8_7</td>
<td>Environmental toxicology</td>
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<tr>
<td>LS8_8</td>
<td>Biologie des procaryotes</td>
</tr>
<tr>
<td>LS8_9</td>
<td>Symbiosis</td>
</tr>
</tbody>
</table>
| LS9_1 | Genetic engineering, transgenic organisms, recombinant proteins, biosensors  
|       | Génie génétique, organismes transgéniques, protéines recombinantes, biocapteurs |
| LS9_2 | Synthetic biology and new bio-engineering concepts  
|       | Biologie synthétique et nouveaux concepts en bio-ingénierie |
| LS9_3 | Agriculture related to animal husbandry, dairying, livestock raising  
|       | Agriculture liée à la zootechnie, les laiteries et à l'élevage du bétail |
| LS9_4 | Aquaculture, fisheries  
|       | Aquaculture, pêche |
| LS9_5 | Agriculture related to crop production, soil biology and cultivation, applied plant biology  
|       | Agriculture en rapport avec la production de récoltes, biologie du sol et la culture, biologie végétale appliquée |
| LS9_6 | Food sciences  
|       | Sciences des aliments |
| LS9_7 | Forestry, biomass production (e.g. for biofuels)  
|       | Sylviculture, production de biomasse (ex : pour les biocarburants) |
| LS9_8 | Environmental biotechnology, bioremediation, biodegradation  
|       | Biotechnologie de l'environnement, bioremédiation, biodégradation |
| LS9_9 | Biotechnology, bioreactors, applied microbiology  
|       | Biotechnologie, bioréacteurs, microbiologie appliquée |
| LS9_10 | Biomimetics  
|        | Biomimétique |
| LS9_11 | Biohazards, biological containment, biosafety, biosecurity  
|        | Risques biologiques, confinement biologique, biosécurité, biosécurité |
### SCIENCES DE LA VIE ET DE LA SANTE
### LIFE AND HEALTH SCIENCES

<table>
<thead>
<tr>
<th>SVS-1</th>
<th>Sciences de la Vie et de la Santé – 1</th>
<th>Life and Health Sciences – 1</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>molecular biology, biochemistry, biophysics, structural biology, biochemistry of signal transduction (based on ERC-LS1)</td>
<td>biologie moléculaire, biochimie, biophysique, biologie structurale, biochimie de la transduction du signal (basé sur ERC-LS1)</td>
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<tr>
<td>LS1_1</td>
<td>Molecular biology and interactions</td>
<td>Biologie moléculaire et interactions</td>
</tr>
<tr>
<td>LS1_2</td>
<td>General biochemistry and metabolism</td>
<td>Biochimie générale et métabolisme</td>
</tr>
<tr>
<td>LS1_3</td>
<td>DNA biosynthesis, modification, repair and degradation</td>
<td>Biosynthèse, modification, réparation et dégradation de l’ADN</td>
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<tr>
<td>LS1_4</td>
<td>RNA synthesis, processing, modification and degradation</td>
<td>Synthèse, maturation, modification et dégradation de l’ARN</td>
</tr>
<tr>
<td>LS1_5</td>
<td>Protein synthesis, modification and turnover</td>
<td>Synthèse, modification et renouvellement des protéines</td>
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<td>LS1_6</td>
<td>Biophysics</td>
<td>Biophysique</td>
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<td>LS1_7</td>
<td>Structural biology (crystallography, NMR, EM)</td>
<td>Biologie structurale (cristallographie, RMN, microscopie électronique)</td>
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<td>LS1_8</td>
<td>Biochemistry of signal transduction</td>
<td>Biochimie de transmission des signaux</td>
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<tr>
<td></td>
<td>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)</td>
<td>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)</td>
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<tr>
<td>LS2_1</td>
<td>Genomics, comparative genomics, functional genomics</td>
<td>Génomique, génomique comparée, génomique fonctionnelle</td>
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<td>LS2_2</td>
<td>Transcriptomics</td>
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<td>Proteomics</td>
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<td>Glycomics</td>
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<td>Molecular genetics, reverse genetics and RNAi</td>
<td>Génétique moléculaire, génétique inverse et interférence ARN</td>
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<td>LS2_7</td>
<td>Quantitative genetics</td>
<td>Génétique quantitative</td>
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<td>LS2_8</td>
<td>Epigenetics and gene regulation</td>
<td>Epigénétique et régulation génétique</td>
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<td>LS2_9</td>
<td>Genetic epidemiology</td>
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<td>Systems biology</td>
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<td>LS2_14</td>
<td>Biological systems analysis, modelling and simulation</td>
<td>Analyse, modélisation et simulation des systèmes biologiques</td>
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<td>FNRS-30</td>
<td>Genetic diagnostic tools, pharmacogenetics</td>
<td>Outils de diagnostic génétique, pharmacogénomique</td>
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<td>cell biology, cell physiology, signal transduction, organogenesis, developmental genetics, pattern formation in plants and animals (based on ERC-LS3)</td>
<td>biologie cellulaire, physiologie cellulaire, transduction du signal, organogénèse, génétique du développement, plan d’organisation chez les plantes et les animaux (basé sur ERC-LS3)</td>
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<td>LS3_1</td>
<td>Morphology and functional imaging of cells</td>
<td>Morphologie et imagerie fonctionnelle des cellules</td>
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<td>LS3_2</td>
<td>Cell biology and molecular transport mechanisms</td>
<td>Biologie cellulaire et mécanismes de transport moléculaires</td>
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<td>LS3_3</td>
<td>Cell cycle and division</td>
<td>Cycle cellulaire et division</td>
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<td>Cell differentiation, physiology and dynamics</td>
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<td>Differenciation, physiologie et dynamique cellulaires</td>
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<td>LS3_6</td>
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<td>Biologie des organites</td>
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<td>LS3_7</td>
<td>Cell signalling and cellular interactions</td>
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<td>Signalisation de cellules et interactions cellulaires</td>
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<td>Signal transduction</td>
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<td>Transmission des signaux</td>
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<td>LS3_9</td>
<td>Development, developmental genetics, pattern formation and embryology in animals</td>
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<td>Développement, génétique du développement, plan d’organisation et embryologie chez les animaux</td>
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<td>LS3_10</td>
<td>Development, developmental genetics, pattern formation and embryology in plants</td>
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<td>Développement, génétique du développement, plan d’organisation et embryologie chez les végétaux</td>
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<td>Génétique cellulaire</td>
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<td>LS3_12</td>
<td>Stem cell biology</td>
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<td>Biologie des cellules souches</td>
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<td>FNRS-36</td>
<td>Stem cell therapy, regenerative medicine</td>
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<td>Thérapie à base de cellules souches, médecine régénératrice</td>
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| SVS-2 | Sciences de la Vie et de la Santé – 2  
Life and Health Sciences – 2 |
| LS4_1 | Organ physiology  
Physiologie des organes |
| LS4_2 | Comparative physiology  
Physiologie comparée |
| LS4_3 | Endocrinology and its biological basis  
Endocrinologie et ses bases biologiques |
| LS4_4 | Ageing and its biological basis  
Vieillissement et ses bases biologiques |
| LS4_5 | Metabolism, biological basis of metabolism related disorders  
Métabolisme, bases biologiques des troubles du métabolisme |
| LS4_6 | Cancer and its biological basis  
Cancer et ses bases biologiques |
| LS4_7 | Cardiovascular diseases and its biological basis  
Maladies cardio-vasculaires et ses bases biologiques |
| LS4_8 | Non-communicable diseases (except for neural/psychiatric, immunity-related, metabolism-related disorders, cancer and cardiovascular diseases)  
Maladies non-transmissibles (sauf maladies neuro-psychiatriques, maladies immunitaires, troubles du métabolisme, cancer et maladies cardio-vasculaires) |
| LS6_1 | Innate immunity  
Immunité innée |
| LS6_2 | Adaptive immunity  
Immunité adaptative |
| LS6_3 | Phagocytosis and cellular immunity  
Phagocytose et immunité cellulaire |
| LS6_4 | Immunosignaling  
Signification de la réponse immunitaire |
| LS6_5 | Immunological memory and tolerance  
Mémoire immunitaire et immunotolérance |
| LS6_6 | Immunogenetics  
Immunogénétique |
| LS6_7 | Microbiology  
Microbiologie |
| LS6_8 | Virology  
Virologie |
| LS6_9 | Bacteriology  
Bactériologie |
| LS6_10 | Parasitology  
Parasitologie |
| LS6_11 | Prevention and treatment of infection by pathogens (e.g. vaccination, antibiotics, fungicide)  
Prévention et traitement des infections à agents pathogènes (ex: vaccination, antibiotiques, fongicides) |
| LS6_12 | Biological basis of immunity related disorders  
Bases biologiques des troubles immunitaires |
| LS6_13 | Veterinary medicine  
Médecine vétérinaire |
<table>
<thead>
<tr>
<th>SVS-3</th>
<th>Sciences de la Vie et de la Santé – 3</th>
<th>Life and Health Sciences – 3</th>
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<tr>
<td></td>
<td>neurobiology, neuroanatomy, neurophysiology, neurochemistry, neuropharmacology, neuroimaging, systems neuroscience, neurological disorders, psychiatry (based on ERCLS5)</td>
<td>neurobiologie, neuroanatomie, neurophysiologie, neurochimie, neuropharmacologie, imagerie cérébrale, neurosciences des systèmes, troubles neurologiques, psychiatrie (basé sur ERC-LS5)</td>
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<tr>
<td>LSS_1</td>
<td>Neuroanatomy and neurosurgery</td>
<td>Neuroanatomie et neurochirurgie</td>
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<td>LSS_2</td>
<td>Neurophysiology</td>
<td>Neurophysiologie</td>
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<td>LSS_3</td>
<td>Neurochemistry and neuropharmacology</td>
<td>Neurochimie et neuropharmacologie</td>
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<td>LSS_4</td>
<td>Sensory systems (e.g. visual system, auditory system)</td>
<td>Système sensoriel (ex : système visuel, système auditif)</td>
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<tr>
<td>LSS_5</td>
<td>Mechanisms of pain</td>
<td>Mécanismes de la douleur</td>
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<td>LSS_6</td>
<td>Developmental neurobiology</td>
<td>Neurobiologie du développement</td>
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<tr>
<td>LSS_7</td>
<td>Cognition (e.g. learning, memory, emotions, speech)</td>
<td>Cognition (ex : apprentissage, mémoire, émotions, discours)</td>
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<td>LSS_8</td>
<td>Behavioral neuroscience (e.g. sleep, consciousness, handedness)</td>
<td>Neurosciences comportementale (ex : sommeil, conscience, latéralisation)</td>
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<td>LSS_9</td>
<td>Systems neuroscience</td>
<td>Neurosciences des systèmes</td>
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<tr>
<td>LSS_10</td>
<td>Neuroimaging and computational neuroscience</td>
<td>Imagerie neurologique et informatique pour les neurosciences</td>
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<tr>
<td>LSS_11</td>
<td>Neurological disorders (e.g. Alzheimer's disease, Huntington's disease, Parkinson's disease)</td>
<td>Troubles neurologiques (ex : maladie d'Alzheimer, maladie de Huntington, maladie de Parkinson)</td>
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<td>LSS_12</td>
<td>Psychiatric disorders (e.g. schizophrenia, autism, Tourette's syndrome, obsessive-compulsive disorder, depression, bipolar disorder, attention deficit hyperactivity disorder)</td>
<td>Troubles psychiatriques (ex : schizophrénie, autisme, syndrome de Tourette, troubles obsessionnels compulsifs, dépression, troubles bipolaires, troubles de l'attention avec hyperactivité)</td>
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<td>SVS-4</td>
<td>Sciences de la Vie et de la Santé – 4</td>
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<td>Life and Health Sciences – 4</td>
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<td></td>
<td>aetiology, diagnosis and treatment of disease, public health, epidemiology, pharmacy, pharmacology, clinical medicine, regenerative medicine, medical ethics (based on ERC-LS7)</td>
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<td></td>
<td>étiologie, diagnostic et traitement des maladies, santé publique, épidémiologie, pharmacie, pharmacologie, médecine clinique, médecine régénératrice, éthique médicale (basé sur ERC-LS7)</td>
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<td>LS7_4</td>
<td>Analgesia</td>
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<td>LS7_5</td>
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<td>LS7_8</td>
<td>Radiation therapy</td>
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<td>Radiothérapie</td>
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<td>LS7_10</td>
<td>Public health and epidemiology</td>
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<td>Santé publique et épidémiologie</td>
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<td>LS7_11</td>
<td>Environment and health risks including radiation</td>
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<td>Risques sanitaires et environnementaux y compris les radiations</td>
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<td>LS7_12</td>
<td>Occupational medicine</td>
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<td>Médecine du travail</td>
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<td>LS7_13</td>
<td>Medical ethics</td>
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<td>Ethique médicale</td>
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<td>FNRS-25</td>
<td>Cell therapy, immunotherapy and immunoprevention</td>
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<td>Thérapie cellulaire, immunothérapie et immunoprévention</td>
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<td>FNRS-26</td>
<td>Translational research</td>
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<td>Recherche translationnelle</td>
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<td></td>
<td>- Clinical research on cardio-vascular diseases</td>
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<td></td>
<td>- Clinical research on renal diseases</td>
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<td></td>
<td>- Clinical research on gastro and hepatic diseases</td>
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<td>- Clinical research on rheumatologic diseases</td>
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<td></td>
<td>- Clinical research on metabolic syndrome</td>
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<td>- Clinical research on diabetes</td>
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<td>- Clinical research on pneumologic diseases</td>
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<td>- Clinical research in oncology</td>
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<td>- Medical statistics</td>
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<td>Sciences pharmaceutiques</td>
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<td>FNRS-38</td>
<td>Bioanalysis and diagnostic tools (e.g. : imaging)</td>
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<td>Bioanalyses et outils de diagnostic (ex : imagerie)</td>
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<td>FNRS-39</td>
<td>Pharmacology, drug discovery and design, drug therapy, clinical pharmacology</td>
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<td>Pharmacologie, découverte et conception de médicaments, thérapie médicamenteuse et pharmacologie clinique</td>
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<td>FNRS-40</td>
<td>Surgery and organ transplantation</td>
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<td>Chirurgie et transplantation d’organes</td>
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<td>FNRS-41</td>
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<td>Services de santé, recherche en soins de santé et suivi pharmaceutique</td>
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<td>IDR-32</td>
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<td>Foresight</td>
<td>Développement durable Sustainable development</td>
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<td><strong>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)</strong></td>
<td>Any research project aiming at addressing a problem related to sustainable development (in any aspect: natural sciences, applied sciences, social sciences and humanities)</td>
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<td>Environment and sustainability Environnement et développement durable</td>
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<td>Social and industrial ecology Ecologie sociale et industrielle</td>
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<td>Human and social geography Géographie humaine et sociale</td>
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<td>IDR-17</td>
<td>Spatial and regional planning Aménagement de l'espace et du territoire</td>
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<td>Population dynamics Dynamique des populations</td>
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<td>Urbanization and urban planning Développement urbain</td>
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<td>Transportation Transports</td>
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<td>Sustainable architecture Architecture durable</td>
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<td>Natural resources management Gestion des ressources naturelles</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>Decision process Processus de décision</td>
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<td>Energies Energies</td>
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Release notes

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