PEARL

Strategic Research Programme to Attract Leading Researchers to Luxembourg

Table of Contents

1. General Principles of the PEARL Programme ................................................................. 2
   1.1. Objectives ......................................................................................................................... 2
   1.2. Main Characteristics of the PEARL Programme ............................................................... 2
   1.3. Open recruitment via PEARL (open PEARL) ................................................................. 3
   1.4. Eligible Host Institutions and Candidates ................................................................. 3
   1.5. Gender Equity ................................................................................................................... 4

2. Schedule for the 2020 PEARL Calls ....................................................................... 4

3. Submission and selection process ............................................................................... 4
   3.1. Strategic Merit Assessment Stage .............................................................................. 5
   3.2. Candidate and Research Programme Assessment Stage ........................................... 5
   3.3. Evaluation of open PEARL positions .......................................................................... 5
   3.4. The SMA criteria ........................................................................................................ 6
   3.5. The scientific panel criteria ....................................................................................... 7

4. Relocation Support ........................................................................................................ 8

5. Further information ...................................................................................................... 8

Version Call 2020, 08/07/2019

Changes to previous calls:

- Application split into pre-proposal and full-proposal stages, with corresponding templates available. The programme description has been adapted accordingly.
1. General Principles of the PEARL Programme

1.1. Objectives

Since its launch in 2008, the PEARL programme is one of the FNR’s key instruments in its strategy to strengthen Luxembourg’s research environment by investing in human resources, institutional development and capacity building in priority research domains. This objective has been reiterated in the FNR’s Performance Contract 2018-2021 (PC) with the Luxembourg government (see FNR website http://www.fnr.lu/en/About-Us/Mission), where the FNR intends to invest further in the period 2018-2021 through PEARL. The FNR foresees to grant 1 to 2 PEARL awards (3-4 M€ each) per year.

In line with the strategy outlined in our PC, the FNR continues to offer PEARL funding to enable the recruitment of renowned scientists to Luxembourg. PEARL candidates should be leaders in their field, innovative, creative and possess an outstanding track record that will strengthen Luxembourg’s position in the international world of research and development.

Within the frame of the PC, increased emphasis has been put on the assessment of PEARL proposals in light of their contribution to the development of a given priority area for Luxembourg (the strategic merit assessment). The FNR will gauge to what extent the candidate and their project will contribute to strengthen the research priority areas of Luxembourg. Proposals will need to show how the candidate’s research activities will integrate into the institution’s strategy and create synergistic effects with the existing research fabric with the intention to multiply the scientific impact and attain high international recognition in the field. The FNR will look at the past and present achievements within the particular research field in Luxembourg as well as the past and future investments of the institution within this domain.

The PEARL objective:

Attraction of leading researchers that will develop a research programme in areas of strategic importance to Luxembourg with the potential to generate long term impact.

1.2. Main Characteristics of the PEARL Programme

The PEARL programme offers five year grants of 3M€, respectively 4M€ for proposals that have substantial requirements regarding experimentation and instrumentation. In addition to the FNR grant, a financial contribution by the host institution is expected, as PEARL projects should be understood as a joint undertaking with the view to reach the institutional and national objective of achieving international visibility in the chosen research field.

The PEARL programme is not formally restricted to specific research fields. However, the scope of fields is defined by the strategic priorities of both the host institution and the national research priorities. Thus, the proposal should demonstrate that it will contribute to either creating a new
research area in one of these priorities or will strengthen an already-existing focus research area of the host institution.

PEARL provides financial support for all aspects that are required for the establishment of a research programme including funding for personnel, major research equipment, infrastructure or data collection, and anything else required. The PEARL grantee will have the necessary freedom to make use of the PEARL budget during the course of the grant in order to successfully implement his/her research programme and build up his/her group.

A Scientific Advisory Board (SAB) will accompany the PEARL fellow during their project. Their role is to help steer the programme and report on the progress of the PEARL to the FNR. The SAB will meet yearly and evaluate the ongoing development of the PEARL, informing the FNR of any possible issues that need to be addressed.

In addition, the FNR will assist in the relocation of the PEARL fellow to Luxembourg to ensure a smooth transition into the new environment.

**1.3. Open recruitment via PEARL (open PEARL)**

The PEARL programme also allows for the submission of a proposal where the candidate is still to be recruited. Through this format, institutions can advertise an attractive position and are thus able to recruit the best candidates to Luxembourg, with the backing of the FNR. Institutions wishing to fill a position which they deem of particular importance to their strategic development may apply for such a PEARL position. These proposals will be evaluated on their strategic merit together with the ‘regular’ PEARL candidates in the SMA stage (see below). In case such a position is retained, a joint recruitment panel will be formed between the institution and the FNR and the PEARL position will be openly advertised.

**1.4. Eligible Host Institutions and Candidates**

The following organisations established within Luxembourg are eligible for financial support from the FNR under the PEARL programme:

1. Public institutions performing research in Luxembourg;
2. Non-profit associations and foundations performing research in Luxembourg and that have obtained a special authorization from the Ministry for Higher Education and Research.

For more information on eligibility on institutions, please consult the information on the FNR website http://www.fnr.lu/en/about-us/beneficiaries

The PEARL funding programme is directed at public research institutions in Luxembourg in order to facilitate attracting outstanding research professionals not yet established in Luxembourg. The candidate must not have his or her main research base in Luxembourg at the time of submission of the proposal.
1.5. Gender Equity

Through the PEARL programme, the FNR also wishes to address the apparent gap between genders in leading academic and research positions. The FNR therefore requires that the research institutions to ensure that at least 30% of the candidates to be proposed to the FNR in the years 2018-2021 are female researchers.

2. Schedule for the 2020 PEARL Calls

The PEARL call 2020 will follow the following schedule:

<table>
<thead>
<tr>
<th>Date</th>
<th>Event</th>
</tr>
</thead>
<tbody>
<tr>
<td>October 15th 2019 14:00 (CET)</td>
<td>Deadline for the submission of pre-proposals</td>
</tr>
<tr>
<td>October – December 2019</td>
<td>Strategic Merit Assessment by PEARL standing panel and shortlisting of proposals</td>
</tr>
<tr>
<td>February 14th 2020 14:00 (CET)</td>
<td>Deadline for the submission of full proposals</td>
</tr>
<tr>
<td>February – April 2020</td>
<td>Evaluation of proposal by at least 3 international experts in the field and written feedback to applicants</td>
</tr>
<tr>
<td>April – May 2020</td>
<td>Interview sessions with expert panel to obtain funding recommendation</td>
</tr>
<tr>
<td>June – July 2020</td>
<td>The final funding decision by the Board of Administration of the FNR and communication to applicants</td>
</tr>
</tbody>
</table>

Note that all dates and timeframes are indicative and may be subject to change.

Candidates are responsible to check early in advance whether the Luxembourg host institution for their PEARL grant has an internal deadline prior to the FNR deadline.

3. Submission and selection process

The PEARL programme foresees one annual deadline for pre-proposals, with a later deadline for full-proposals. PEARL projects will undergo two evaluation stages following the formal submission of the pre-proposal by the Host Institution and the candidate:

- Strategic Merit Assessment (SMA), to be evaluated by the PEARL standing panel
- Interview stage, with the assessment of the candidate and research programme, to be evaluated by scientific panel

Based upon the evaluations of the candidates, the funding recommendation by the PEARL standing panel will be finalized by the board of the FNR.
3.1. Strategic Merit Assessment Stage

All pre-proposals that are submitted to the FNR by the annual deadline will be reviewed by international experts to assess the project in terms of the applicant's fit, international relevance, and long-term development of the field. In addition, institutional representatives will be able to present the proposals and their fit to the respective institutional strategy in the SMA panel, whose role it is to shortlist proposals for the next evaluation stage based on long-term strategic development of the research field in Luxembourg. More details are in “The SMA criteria” section (2.5) as well as the “Guidelines for Applicants”.

3.2. Candidate and Research Programme Assessment Stage

Projects retained for the second evaluation stage will be requested to write a full proposal, which will be assessed in writing by international experts for scientific quality, innovation and impact potential, as well as candidate excellence. The reviews will be provided to the candidate prior to the interview session. At the interview session, both the candidate and representatives of the host institution will present the proposal and address the remarks of the reviews in front of the expert panel. The panel will then give a final evaluation and recommendation to the FNR as to whether the PEARL project should be funded. More details are in “The Scientific Panel criteria” section below as well as the “Guidelines for Applicants” document.

The awarding of a PEARL grant is contingent on the acceptance of and continuation in an appropriate permanent position at the host institution where the PEARL fellow will be joining. The terms and conditions of the employment are directly negotiated between the applicant and the host institutions.

The final decision for the FNR's funding of the PEARL project will be taken by the decision bodies of the FNR. The FNR will usually fund up to 1-2 PEARL positions per annum.

3.3. Evaluation of open PEARL positions

When a proposal without a candidate is retained by the PEARL panel at the SMA stage, the institutions and FNR will organise a joint recruitment process to search for appropriate candidates to fill the position. The candidates will be evaluated on their merits and on how their research programme ties in with the strategy and research objectives set out in the initial proposal (incl. strategy and competency areas of the university or research institute). It is therefore essential that the candidates present a rationale for how their research programme ties in with the proposal and its objectives in their application.

The FNR requires that the position will be openly advertised.
3.4. The SMA criteria

Appropriateness of the candidate

The SMA panel will assess the appropriateness of the candidates profile in light of the expectation of the PEARL programme. They will look at the leadership of the candidate in the field as demonstrated by his/her scientific track record (publications, awards, patents, etc.) and past achievements beyond scientific output (contribution to the development of institutions, IP generation, collaboration with private sector etc.).

Value of strategic development

The SMA panel will assess the strategic alignment of the proposal with the national R&D strategy and strategic orientation of the institute. Their assessment will be based on the past investments and achievements of the institute as well as its future ambition for the research domain. Furthermore, the panel will look at the anticipated added value of the candidate and his/her research programme to the vision of the institution and the development of national research and innovation environment. In particular, the potential to reach critical mass and high international visibility will be assessed with a specific eye on the potential for synergies with existing Luxembourg-based research groups.

In addition, the SMA panel will look at the possible scientific output and advancement of current knowledge in the field, the advancement of people (e.g. through teaching, training, mentoring etc.) and the appropriateness of the dissemination and exploitation strategies of the research findings (e.g. IP valorization strategies, public engagement, collaboration with actors from the society and the economy etc.).

Institutional commitment (Attractiveness of position to potential candidates)

The SMA panel will assess the commitment of the host institution to the PEARL programme in terms of financial contributions and other forms of support (Personnel, infrastructure, or other additions to the project) demonstrating that the PEARL-position is truly part of a long-term investment in a strategic area of development for the host institution.

In the absence of a candidate, the FNR will assess the potential to attract leading researchers to the position looking at the means put at disposal by the institution, the benefits associated to the position, recruitment strategy, and other relevant aspects.
3.5. The scientific panel criteria

**Excellence of the researcher**

The experts will look in detail at the candidates ability to generate high impact scientific output and advance current knowledge in the field, his/her track record in terms of the advancement of people (e.g. through teaching, training, mentoring etc.) and his/her ability to exploit research findings (e.g. IP valorization strategies, public engagement, collaboration with actors from the society and the economy etc.). The experts will also assess the appropriateness of the applicant’s track record with respect to the proposed research programme.

**Scientific quality and innovativeness**

The research programme presented within the proposal will be assessed in light of its innovativeness and the international competitiveness. The experts will assess if the scientific approach is sufficiently focused, appropriate and if the objectives are achievable. In addition, the research programme will be evaluated based on its likelihood of advancing the international research field.

**Expected Impact**

Experts will look at the potential to establish a productive and sustainable research group which will make significant contributions to the current knowledge in the field and in the training of the next generation of researchers. The experts will equally look at the group’s strategy for the dissemination and exploitation strategies of the research findings (e.g. IP valorization strategies, public engagement, collaboration with actors from the society and the economy etc.). Ultimately the group’s contribution within the institutional setting to reaching critical mass and international visibility in the field will be looked at.
4. Relocation Support

The FNR will provide relocation assistance as well as financial support to PEARL fellows to help in the process of moving to Luxembourg (including obtaining visas, completing work and residence permit procedures, finding accommodation, opening bank accounts, becoming familiar with the tax system and learning about the country). For more information on what is offered, please contact the Programme Manager.

5. Further information

For additional guidance on submitting PEARL proposals, institutions and potential candidates are advised to contact the FNR well before the submission deadline in case they wish to submit a proposal (in particular if they wish to submit an open PEARL position).

For further information please visit the National Research Fund Luxembourg website www.fnr.lu/PEARL or contact:

Fonds National de la Recherche
P.O. Box 1777
L - 1017 Luxembourg
Tel: +352 26 19 25 - 1
Fax: +352 26 19 25 - 35

Sean Sapcariu – Programme Manager
Tel: +352 26 19 25-33
Email: sean.sapcariu@fnr.lu

Sandra Nittel – Programme Assistant
Tel: +352 26 19 25-22
Email: sandra.nittel@fnr.lu