Open PHACTS

Competitive Call for an Additional Project Partner

Open PHACTS-2012/1

Submissions deadline: 2 May 2012, 17:00 (CEST)

Competitive Call launched by Open PHACTS

COMPETITIVE CALL FOR AN ADDITIONAL PROJECT PARTNER
Open PHACTS-2012/1

CALL TEXT

OF A COMPETITIVE CALL FOR AN ADDITIONAL PROJECT PARTNER

The Open PHACTS project, currently active in the IMI Joint Undertaking, requires the participation of one new partner to carry out the tasks outlined below within the project.

Project grant agreement number: 115191

Project acronym: Open PHACTS

Project full name: An open, integrated and sustainable chemistry, biology and pharmacology knowledge resource for drug discovery

Call identifier: Open PHACTS-2012/1

Language in which the proposal should be submitted: English

Indicative budget: € 300.000

Submissions deadline: May 2nd, 2012 - 17h00 Brussels time

Full Call Package (further information): http://www.openphacts.org

Address for submitting proposals: pmu@openphacts.org

Call Package:

Documents requested:

- Proposal Form (maximum 3 pages application text "technical background", maximum 1 page "description of resources and the institution", maximum 1 page "sustainability plan beyond the end of the Open PHACTS project")
- Questionnaire

For more information, please see the following documents:

- [Proposal form](#) (word file): to be filled in by applicants
- [Questionnaire](#) (excel sheet): to be filled in by applicants
- [Competitive Call Intro](#) (slide deck): introduction and background
- [Evaluation Form](#)
- [Condensed version of the Description of Work](#)
- [Condensed version of the Grant Agreement](#)
- [Condensed version of the Project Agreement](#)
- [IMI JU rules for participation](#) (please discard section 2.2.: Eligible Consortia); for checking the eligibility of your organization it is highly recommended to look up the status of your organization linked to your PIC code
- [IMI JU financial guidelines](#)

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For any further questions on the technical side please contact the CTO of Open PHACTS: Lee Harland: lee@connecteddiscovery.com

1. Tasks to be carried out

Open PHACTS is a major public-private initiative to build an **Open Pharmacological Space**, using the latest semantic web technology. The project has made rapid progress in its first year and is now seeking a partnership with a commercial service provider to **reliably host the publicly accessible system**. We are looking for technology companies, organizations and service providers with a good track record in providing robust, scalable large-scale data software and services, ideally with previous experience in semantic technologies. Joint applications from partnering technology companies, organizations and service providers are very welcome. In return, the provider will be part of a unique project, already gaining first hand experience by working with a large number of global pharmaceutical companies and with the potential to transform pre-competitive information management within life science industry.

The Open PHACTS consortium is interested in the technical capabilities of applying organizations. We would like to see a performance report on loading the current Open PHACTS test datasets as well as performing queries across these datasets. Technical details are outlined in section 7, Technical Supplement.

Additionally, any information on integrating with LarKC (see http://www.larkc.eu/) or more specifically SAIL integration would be appreciated (http://www.openrdf.org/). Examples of such integration are appreciated.

2. General principles

These Rules rest on a number of well-established principles:

(i) **Excellence**: Projects selected for funding must demonstrate high quality in the context of the topics and criteria set out in the relevant call.

(ii) **Transparency**: Funding decisions are based on the described rules and procedures, and applicants receive adequate feedback on the outcome of the evaluation of their proposals.

(iii) **Fairness and impartiality**: All proposals submitted to a call are treated equally. They are evaluated impartially on their merits, irrespective of their origin or the identity of the applicants.

(iv) **Confidentiality**: All proposals and related data, knowledge and documents communicated to the Open PHACTS consortium are treated in confidence.

(v) **Efficiency and speed**: Evaluation, communication, award and grant preparation are as rapid as possible, commensurate with maintaining the quality of the evaluation, and respecting the legal framework.

(vi) **Ethical considerations**: Any proposals which contravene fundamental ethical principles are excluded at any time from the process of evaluation, selection and award (article 6 of the Decision no 1982/2006/EC of the European Parliament and of the Council of 18 December 2006 concerning the Seventh Framework Programme of the European Community for research, technological development and demonstration activities (2007-2013))

(vii) **Data protection**: In accordance with Regulation (EC) No 45/2001 of the European Parliament and of the Council (OJ L8 of 12.01.2001), the data will only be used for the specific purposes for which it was collected and will not be disclosed to other parties without the consent of the individual concerned. Personal information will not be sent outside the European Economic Area unless the individual concerned has consented or adequate protection is in place. Applicants may, on written request, gain access to their personal data and correct any information that is inaccurate or incomplete. They should address any questions regarding the processing of their personal data to the Open PHACTS consortium. Applicants may lodge a complaint against the processing of their personal data with the European Data Protection Supervisor at any time.

Proposals are archived under secure conditions at all times. After completion of the evaluation and any subsequent proposal submissions and negotiation, all copies are destroyed other than those required for archiving and/or auditing purposes.

3. Submission of the proposal

Before completing the application forms, please make sure you have read these notes together with the documents listed above. (Full Call Package available on www.openphacts.org.)

Open PHACTS will not consider applications which do not provide all the information and documents requested. Applicants which do not comply with the eligibility criteria will not be considered for evaluation. Please pay particular attention to the financial rules for IMI funded projects.

For the proposal, please follow the page order stated in the "Proposal Form" (available at www.openphacts.org). If you need to include more information, you may include an annex. However, annexes are not to be used as a substitute for completing the appropriate sections in the form.

Please note that only one proposer will be selected.

Submissions later than May 2nd, 2012 (17h00 Brussels time) cannot be accepted. The proposal will be evaluated as submitted: after the close of the call no additions or changes to received proposals will be taken into account.

The selected applicant has to perform the requested activities at least until the end of the Open PHACTS project (February 28th, 2014) and has to abide to the provision of the Grant Agreement and the Project Agreement, especially the IP policy.

Submission of a proposal is considered as a declaration of acceptance of these Rules, other Call documents, the provisions of the Grant Agreement, and the IMI Intellectual Property Policy by the applicant.

4. Reception of propsal by the Open PHACTS consortium

The date and time of receipt of the submitted propsal are recorded. After the Call closure, an acknowledgement of receipt is sent to the Applicant by e-mail.

Acknowledgement of receipt does not imply that the Expression of Interest meets the eligibility criteria.

There is normally no further contact between the Open PHACTS Consortium and applicants on their proposal until after completion of the evaluation. The Open PHACTS consortium may, however, contact an Applicant in order to clarify matters such as eligibility

5. Evaluation process

The Open PHACTS consortium evaluates proposals with the assistance of independent experts to ensure that only those of the highest quality are selected. Evaluation will be based on the proposal and the questionnaire and will be performed by an Evaluation board composed of consortium members and external experts. Final decision will be made by the Steering Committee upon proposal from the evaluation board. All eligible proposals are evaluated to assess their merit with respect to the pre-defined evaluation criteria relevant to the Call. The detailed evaluation criteria, and when applicable associated weights and thresholds, are set out in the Evaluation Form (available at www.openphacts.org).

5.1 Conflict of interest

When appointing experts, the Open PHACTS consortium takes all necessary steps to ensure that they are not faced with a conflict of interest in relation to the proposals on which they are required to give an opinion. To this end, they are required to sign a declaration that no such conflict of interest exists at the time of their appointment and that they undertake to inform the Open PHACTS consortium if one should arise in the course of their duties. When so informed, the Open PHACTS consortium takes all necessary actions before and during the

evaluation. In addition, all experts are required to re-confirm that they have no conflict of interest for each proposal that they are asked to examine at the moment of the evaluation.

5.2 Scoring

For each evaluation criterion, a score on a scale from 0 to 5 is given by the experts. Half point scores may be given. For each criterion under examination, score values indicate the following assessments:

0: The proposal fails to address the criterion under examination or cannot be judged due to missing or incomplete information
1 Poor: The criterion is addressed in an inadequate manner, or there are serious inherent weaknesses
2 Fair: While the proposal broadly addresses the criterion, there are significant weaknesses
3 Good: The proposal addresses the criterion well, although improvements would be necessary
4 Very good: The proposal addresses the criterion very well, although certain improvements are still possible
5 Excellent: The proposal successfully addresses all relevant aspects of the criterion in question. Any shortcomings are minor.

5.3 Thresholds and weighting

Thresholds:
Thresholds are set for some or all of the criteria, such that any proposal failing to achieve the threshold scores will be rejected. In addition, an overall threshold may also be set. The thresholds to be applied to each criterion as well as any overall threshold are set out in the Evaluation Form. If the proposal fails to achieve a threshold for a criterion, the evaluation will not continue from that point, and the said proposal will immediately be categorized as rejected.

Weighting:
It may be decided to weight the criteria. The weightings to be applied to each criterion are set out in the Evaluation Form.

6. Feedback to applicants

Upon the decision by the Open PHACTS consortium on the outcome of the evaluation, the Applicant of each proposal will receive a formal decision letter, together with the Evaluation Report.

Those proposals found to be ineligible (whether before or during the course of the evaluation), failing any of the thresholds for evaluation criteria, or ranking below a certain level, are formally rejected by the Open PHACTS consortium.
The Open PHACTS Consortium may also reject proposals on ethical grounds following an ethical review done by the experts.

For those proposals rejected after failing an evaluation threshold, the comments contained in the Evaluation Report are completed only up to the point where a threshold is not met.

7. Technical Supplement

The Open PHACTS consortium is interested in the technical capabilities of applying organizations. We are interested in demonstrations that show they are capable of minimally dealing with the current Open PHACTS test datasets. Below is a set of public datasets that are being used in testing.

UniProt in RDF: ftp://ftp.uniprot.org/pub/databases/uniprot/current_release/rdf/README

Chembl in RDF (as provided by the Chem2Bio2RDF project)
http://cheminfov.informatics.indiana.edu:8080/download/chembl.n3.gz

Drugbank in RDF (as provided by the Chem2Bio2RDF project)
http://cheminfov.informatics.indiana.edu:8080/download/drugbank.n3.gz

We would like to see a performance report on loading these datasets as well as performing queries such as the one listed below.

Additionally, any information on integrating with LarKC (see http://www.larkc.eu/) or more specifically SAIL integration would be appreciated (http://www.openrdf.org/). Examples of such integration are appreciated.

Example Query

PREFIX c2b2r_chembl: <http://chem2bio2rdf.org/chembl/resource/>
PREFIX drugbank: <http://www4.wiwiss.fu-berlin.de/drugbank/resource/drugbank/>
SELECT ?alogp ?hha ?hhd ?molformula ?molweight ?mw_freebase ?num_ro5_violations ?psa ?rtb
?affectedOrganism ?biotransformation ?description ?indication ?meltingPoint
?proteinBinding ?toxicity
WHERE {   GRAPH
<file:///home/OPS/develop/openphacts/datasets/chem2bio2rdf/chembl.nt> {
    OPTIONAL { <http://chem2bio2rdf.org/chembl/resource/chembl_compounds/276734>

```
c2b2r_chembl:alogp ?alogp }
    OPTIONAL { <http://chem2bio2rdf.org/chembl/resource/chembl_compounds/276734>
c2b2r_chembl:hha ?hha }
    OPTIONAL { <http://chem2bio2rdf.org/chembl/resource/chembl_compounds/276734>
c2b2r_chembl:hhd ?hhd }
    OPTIONAL { <http://chem2bio2rdf.org/chembl/resource/chembl_compounds/276734>
c2b2r_chembl:molformula ?molformula }
    OPTIONAL { <http://chem2bio2rdf.org/chembl/resource/chembl_compounds/276734>
c2b2r_chembl:molweight ?molweight }
    OPTIONAL { <http://chem2bio2rdf.org/chembl/resource/chembl_compounds/276734>
c2b2r_chembl:mw_freebase ?mw_freebase }
    OPTIONAL { <http://chem2bio2rdf.org/chembl/resource/chembl_compounds/276734>
c2b2r_chembl:num_ro5_violations ?num_ro5_violations }
    OPTIONAL { <http://chem2bio2rdf.org/chembl/resource/chembl_compounds/276734>
c2b2r_chembl:psa ?psa }
    OPTIONAL { <http://chem2bio2rdf.org/chembl/resource/chembl_compounds/276734>
c2b2r_chembl:rtb ?rtb }
  }
  GRAPH <http://linkedlifedata.com/resource/drugbank> {
    OPTIONAL {<http://www4.wiwiss.fu-berlin.de/drugbank/resource/drugs/DB00398>
drugbank:affectedOrganism ?affectedOrganism }
    OPTIONAL {<http://www4.wiwiss.fu-berlin.de/drugbank/resource/drugs/DB00398>
drugbank:biotransformation ?biotransformation }
    OPTIONAL {<http://www4.wiwiss.fu-berlin.de/drugbank/resource/drugs/DB00398>
drugbank:description ?description }
    OPTIONAL {<http://www4.wiwiss.fu-berlin.de/drugbank/resource/drugs/DB00398>
drugbank:indication ?indication }
    OPTIONAL {<http://www4.wiwiss.fu-berlin.de/drugbank/resource/drugs/DB00398>
drugbank:proteinBinding ?proteinBinding }
    OPTIONAL {<http://www4.wiwiss.fu-berlin.de/drugbank/resource/drugs/DB00398>
drugbank:toxicity ?toxicity }
    OPTIONAL { <http://www4.wiwiss.fu-berlin.de/drugbank/resource/drugs/DB00398>
drugbank:meltingPoint ?meltingPoint}
```