

Eurolab4HPC TTP Proposal

INSTRUCTIONS FOR COMPLETING THE PROPOSAL

Call deadline: 01/07/2019

1. ADMINISTRATIVE DATA

- **Project title**

Give the project a descriptive title. An acronym may also prove helpful.

- **Project duration (months) and preferred project start date**

The project typically lasts 6 months. Do not give an earlier preferred starting date than 1 September 2019 as this is when notifications will be sent out. The TTP needs to end by 30 April 2020. The call will close on 1 July 2019 and the review process will take approximately 2 months after the call deadline. Notifications will be sent out on 1 September 2019. Once the TTP has been approved, the grantee's organisation will sign a subcontracting agreement with Eurolab4HPC. This subcontract will clarify what tasks the organization will perform to be entitled to the 45,000 EUR (excl. VAT) TTP grant. The TTP can be part of an already ongoing bilateral collaboration or transfer project. In this case, the start of that underlying bilateral project should not be earlier than 3 months before the TTP starting date.

- **Requested Eurolab4HPC funding to the university (EUR)**

Eurolab4HPC funding is only for academic beneficiaries. The company partner will either co-fund the transfer project at the university or invest its own work – or both. Eurolab4HPC can fund technology transfers for 45 000 EUR. Payment will be carried out after receipt of an invoice from the academic beneficiary's institution. The funding is typically limited to 50% of the total technology transfer budget including the company partner's contribution.

- **Matching company funding (EUR) and type (cash / manpower / in-kind)**

The company will co-fund the technology transfer project at the university. Company funding share below 50% has to be well justified in the plan. Company co-funding must be calculated in the budget section, and value of the work certified by a company financial officer before the TTP start. By default, cash (instead of pure manpower) contributions by the company partner are preferred.

- **Applicant organization**

The applicant organization is the university legal entity. "University" here means a university, other publicly funded higher education institution, or publicly funded research organization.

- **Contact (Scientist in charge at the university)**

The person responsible for the technology transfer at the university (scientist in charge) and her/his contact information.

- **Technology transfer company partner**

The name of the company to which the technology is to be transferred and who is co-funding this activity. "Company" here means an for-profit entity that is privately funded.

In particular, largely or fully publicly funded research organizations are not eligible as company partners. Only companies with business activities and/or physical sites in European Union or Associated States are eligible. However, the actual collaborating company department does not necessarily have to be located itself in these countries.

- **Bilateral contract on technology transfer between the university and company**
The university and the company are responsible for entering into a bilateral contract on the technology transfer.
- **Eurolab4HPC may announce the technology transfer**
After completing the TTP, a public abstract (Deliverable) has to be drafted and delivered to the European Commission. This abstract will also be published at the end of the funded technology transfer in any case. If permission is given, Eurolab4HPC may publish the title and partners of the TTP already when the funding has been approved.

2. TECHNOLOGY TRANSFER PLAN

2.1 Expected impact

Describe the expected added value from the technology transfer. Both academic impacts such as probability of publications and incorporation of start-ups, and economic impacts such as the number of users of the technology inside the company, quality improvement of products and processes (e.g. efficiency, performance, power consumption), potential for subsequent sustainable partnership, potential for enabling new products, expected impact on the business and profits of the company.

Maximum length in proposal: 1 page

Score: 1-5

Threshold: 3

Weight: 2

2.2 Transfer concept, objectives and work plan

Describe the background, such as the possible patent applications or granted patents on the technology and the maturity of the technology, the type of actions, e.g., exclusive purchase, non-exclusive licensing of (what?) rights, transfer of knowledge, development of prototypes, proof-of-concept, transfer of software copyrights, etc.

TTPs should revolve around transferring EXISTING Intellectual Property (IP) into industry rather than developing new IP during the project.

Identify the main objectives and lay out a work plan for achieving them. Specify what is done by the university and what by the company partner.

Please assess the readiness level (TRL) of the technology to be transferred according to the following definitions and provide a short justification for your assessment

TRL 1 Basic principles observed and reported: Transition from scientific research to applied research. Essential characteristics and behaviors of systems and architectures. Descriptive tools are mathematical formulations or algorithms.

TRL 2 Technology concept and/or application formulated: Applied research. Theory and

scientific principles are focused on specific application area to define the concept. Characteristics of the application are described. Analytical tools are developed for simulation or analysis of the application.

TRL 3 Analytical and experimental critical function and/or characteristic proof-of-concept: Proof of concept validation. Active Research and Development (R&D) is initiated with analytical and laboratory studies. Demonstration of technical feasibility using breadboard or brassboard implementations that are exercised with representative data.

TRL 4 Component/subsystem validation in laboratory environment: Standalone prototyping implementation and test. Integration of technology elements. Experiments with full-scale problems or data sets.

TRL 5 System/subsystem/component validation in relevant environment: Thorough testing of prototyping in representative environment. Basic technology elements integrated with reasonably realistic supporting elements. Prototyping implementations conform to target environment and interfaces.

TRL 6 System/subsystem model or prototyping demonstration in a relevant end-to-end environment: Prototyping implementations on full-scale realistic problems. Partially integrated with existing systems. Limited documentation available. Engineering feasibility fully demonstrated in actual system application.

TRL 7 System prototyping demonstration in an operational environment: System is at or near scale of the operational system, with most functions available for demonstration and test. Well integrated with collateral and ancillary systems. Limited documentation available.

TRL 8 Actual system completed and "mission qualified" through test and demonstration in an operational environment: End of system development. Fully integrated with operational hardware and software systems. Most user documentation, training documentation, and maintenance documentation completed. All functionality tested in simulated and operational scenarios. Verification and Validation (V&V) completed.

TRL 9 Actual system "mission proven" through successful mission operations: Fully integrated with operational hardware/software systems. Actual system has been thoroughly demonstrated and tested in its operational environment. All documentation completed. Successful operational experience. Sustaining engineering support in place.

Maximum length in proposal: 1 page

Score: 1-5

Threshold: 3

Weight: 1

2.3 Resources and budget

Human resources to be allocated to carry out the work. Possible other resources needed and their availability. Justification of other direct costs than salaries. Contributions of the company partner financially and/or as "in kind" efforts.

Calculate the project costs at the university, assuming:

- Salary costs incl. social overheads
- necessary travel
- purchase of materials and consumables, and
- 7% general overhead on the above costs.

All the costs need to be eligible costs as per EU H2020 project rules.

Maximum length in proposal: 0.5 pages

Score: 1-5

Threshold: 1
Weight: 1

2.4 Partner profiles

Capabilities of the partners to carry out the transfer, their track record on previous technology transfer activities or other collaboration, and the match between the technology provided and the company profile.

Maximum length in proposal: 0.5 pages
Score: 1-5
Threshold: 3
Weight: 1

TTP proposal selection and granting rules:

The Eurolab4HPC Steering Committee (SC) will check all incoming proposals for eligibility. The eligible proposals will be evaluated by a sufficient number of independent experts, who will be appointed by the SC for each TTP call. By default, each proposal shall be reviewed by two independent experts, normally involving one academic and one industrial expert. The independent experts will, after signing an NDA, evaluate the proposals remotely w.r.t. the above criteria and will report their results to the SC. The SC will prepare a ranking list of proposals according to their total weighted average scores. Proposals with a sub-threshold score in at least one criterion after averaging the individual reviewer scores will be excluded.

In case of ties, the following secondary ordering criteria shall apply:

1. Higher average score on "Impact"
2. Higher average score on "Soundness of concept" (concept, objectives, work plan)
3. TTP involves a new EU member state or candidate state
4. TTP involves an SME

Finally, the SC will decide on the which proposals will be funded in top-down fashion according to the ranking list. proposals will be accepted until the total call budget is exhausted.