# **Helmholtz Imaging Projects 2021 Application Template**

## General requirements

|  |  |
| --- | --- |
| **Parts and page limits** | Main body (max. 5 pages) and appendices, including list of work packages, list of deliverables, financial plan, CVs, letters of boards, resubmission statement (if applicable) (please note that an abstract, potential reviewers and further information has to be provided in the online submission tool) |
| **Formatting** | Arial, font size 11 & single-line spacing |
| **Language** | English |
| **Online submission tool** | [projects.helmholtz-imaging.de](https://projects.helmholtz-imaging.de/) |

## Project information

|  |  |
| --- | --- |
| **Project title** |  |
| **Project acronym** |  |

## Cover Page

Note that the cover page is automatically generated by the Project Proposal Portal based on your input in the online submission tool.

## Project proposal (main body, max. 5 pages)

1. **Scientific case**

Please describe the scientific background of your project and the objective(s) of the project clearly and coherently, expound the challenges, urgency and potential impacts with particular emphasis on the cross-center and cross-field character of the approach and relate to state-of-the-art research. Please reference your key deliverables.

1. **Uniqueness, innovation and main goals**

Please explain the uniqueness and innovation of your approach in the context of it being a Helmholtz-specific opportunity, highlighting the complementarity of and contributions from the participating centers. Explain your project’s main goals and its potential to foster knowledge transfer between different domains of expertise, especially taking into account a potential customer.

Please detail the potential risks and associated gains of your project in contrast to a more conservative, incremental approach.

1. **Imaging methods, applications and/or data sets**

Please describe the method(s), algorithm(s) or software solution(s) you aim for and their application in imaging science. Comment on the relevance of related data sets (joint usage/exploitation, benchmark character, etc.).

Please note that the methodology description should not merely list options or remain at the surface level, but explain in detail which choices are made and how these will help address the research question(s) and challenges at hand.

Please explain your project’s potential to improve, implement, transfer and/or disseminate imaging technologies and solutions beyond the particular use case.

Please reference your deliverables.

1. **Long-term impact/ transfer potential**

Please discuss the expected impact/benefit arising from the joint endeavor, particularly for

1. researchers within the Helmholtz Association and the imaging community and
2. beyond (transfer of findings outside the scientific community). Specifically:
   * Please point out how the customer will adopt the Helmholtz Imaging solution provided by your project and assess its usability.
   * Outline how the project achieves the maturation of (preliminary) findings and results, e.g. advancing the Technological Readiness Level (TRL)[[1]](#footnote-1)
   * Outline a sound and implementable exploitation strategy.

Please comment on documenting and storing results in a sustainable way for future-proof access and re-use.

Please reference your deliverables.

1. **Implementation and management**

Please lay out the plans for staff recruitment and all expenditures, and describe the intended project management, decision-making and oversight measures you will apply, including communication between participating centers and collaboration mechanisms with external partners.

## Appendices

## List of Work Packages

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **WP#** | **WP Title** | **Lead (PI)** | **Budget (INF + own)** | **Start month /year** | **End month /year** |
| 1 |  |  |  |  |  |
| 2 |  |  |  |  |  |
| ... |  |  |  |  |  |

Please provide a list of work packages with a descriptive title and indicate the leading centre, the budget and the timeline.

## List of Deliverables

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Deliver-able #** | **Deliverable type and description** | **WP#** | **Lead** | **Due month** |
| 1 |  |  |  |  |
| 2 |  |  |  |  |
| ... |  |  |  |  |

Deliverables are outputs that must be produced at a given moment during the project. Please set out clear and verifiable deliverables, define the associated work package, the responsible project partner and the due month. Please indicate which deliverables are jointly produced with or intended to be used by external partners (e.g. industry).

Non-limiting examples for deliverables are: documents (e.g. scientific, policy or lay publications, reports, technical brochures), website content, code (package), software (e.g. apps or new versions), data sets, patent filing, collaboration/license agreement.

Ideally, deliverables are co-created and iteratively developed with users and non-academic stakeholders to ensure the quick dissemination of results.

Please take into account that first deliverables are expected within 12 months and that towards the end of the projects lifetime a deliverable concerning sustainability and reusability options shall be included.

## List of Milestones

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **Milestone #** | **Milestone name and description** | **WP#** | **Lead** | **Due month** | **Means of verification** |
| 1 |  |  |  |  |  |
| 2 |  |  |  |  |  |
| ... |  |  |  |  |  |

Milestones are key events in the life cycle of a project. They have to allow for decision on the advancement of the project such that success or failure can be identified.

After a quarter of the funding period, the milestones can be adjusted in close consultation with the PST (agreement by Head Office required). This task shall be included in the milestone list.

Please take into account that first impactful results are expected by end 2021.

## Timeline

Please add a description of the timeline, e.g. visualized by a Gantt Chart.

## Budget

Your budget planning must include a break-down of the allocated budget for each work package defining their aggregate in-kind and cash contributions for the entire funding period. Overhead cannot be funded, please do not calculate any. **Please take extra care that the requested funds and the matching funds are identical to the sums indicated in the online submission tool.**

A maximum of 70% of the INF funding can be assigned to one Helmholtz Center.

|  |  |  |  |
| --- | --- | --- | --- |
|  | **Contributions (Euro)** | | |
| **Own** | **INF** | **Total** |
| **WP 1** |  |  |  |
| Partner 1 (Name) |  |  |  |
| Partner 2 (Name) |  |  |  |
| … |  |  |  |
| **WP 2** |  |  |  |
| Partner 1 (Name) |  |  |  |
| Partner 2 (Name) |  |  |  |
| … |  |  |  |
| **Total** |  |  |  |

Your budget planning must also include a break-down of the annual budget for each participating center according to type of funding (staff and other expenses).

**Financial plan**

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
|  | | **2022** | **2023** | **2024** | **2025** | **Total** |
|  | | Euro | Euro | Euro | Euro | Euro |
| **Overall costs**  (without overhead) | |  |  |  |  |  |
|  | **Partner 1 (please name)** |  |  |  |  |  |
|  | Staff expenses |  |  |  |  |  |
|  | Expenses related to materials and equipment |  |  |  |  |  |
|  | Misc. (please specify) |  |  |  |  |  |
|  | **Own contributions** |  |  |  |  |  |
|  | **INF** |  |  |  |  |  |
|  |  |  |  |  |  |  |
|  | **Partner 2 (please name)** |  |  |  |  |  |
|  | Staff expenses |  |  |  |  |  |
|  | Expenses related to materials and equipment |  |  |  |  |  |
|  | Misc. (please specify) |  |  |  |  |  |
|  | **Own contributions** |  |  |  |  |  |
|  | **INF** |  |  |  |  |  |
|  |  |  |  |  |  |  |
|  | … |  |  |  |  |  |
| **Total own contributions** | |  |  |  |  |  |
| **Total INF** | |  |  |  |  |  |

## Resubmission statement (if the application has been unsuccessful in a previous call)

Description of the changes in the resubmitted application compared to the previous version (max. 1 page).

## Participating PIs

CVs of participating PIs (compare template)

## If already available, CV(s) of (a) potential candidate(s)

CVs of potential candidate PIs (compare template)

## Confirmation of the participating Helmholtz centers and external partners that provide matching funds

Signed confirmation letters of the CEO/board of directors of each of the participating parties that contribute matching funds guaranteeing the matching of the funds the contribution of the Initiative and Networking Fund.

1. As defined e.g. in the European Commission's Horizon Program: <https://ec.europa.eu/research/participants/data/ref/h2020/wp/2014_2015/annexes/h2020-wp1415-annex-g-trl_en.pdf> [↑](#footnote-ref-1)