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For Office use only: Application number \_\_\_\_\_

**CAIM RESEARCH FUND APPLICATION FORM**

Please read the full Funding Call Text and Application Guidelines for the CAIM Research Fund (RF) Call 2021 before completing the application process.

**Deadline for submission 15 September 2021 17.00 (CEST)**

For full proposal submission please provide a single PDF file containing the following documents in this order:

Completed Application Form

Applicants' CVs  

Gantt Chart

Letters of matched funding support

Quotations for subcontract services

Optional annexes

To aid processing of applications, please provide a single PDF file with all documents incorporated and name your PDF in this format “**CRF\_LastnamePI\_FirstNamePI**”

Please send any queries regarding applications to [fund.caim@unibe.ch](mailto:fund.caim@unibe.ch) and use “**CRF\_LastnamePI\_FirstNamePI**” as the subject of your email in any correspondence.

**Please submit your application document to the online portal** <https://cmt3.research.microsoft.com/CAIM2021/>

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| **APPLICATION SUMMARY** | |
| Application Title | |
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| Proposed Duration |  |
| Start Date |  |

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| **LEAD APPLICANT** | |
| Full Name |  |
| Department |  |
| Division |  |
| Organisation |  |
| Address Line 1 |  |
| City/Town |  |
| Postcode |  |
| Country |  |
| Telephone No. |  |
| Email Address |  |
|  | |
| Previous Applications to the CAIM Research Fund | |
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| Salary Support & Employment Status | |
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| Clinical Status - Do you have a medical or veterinary qualification? | |
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| **Key achievements (Lead applicant)** |
| *Provide references or examples of five key achievements related to this application, examples can include:*  *i) inventions protected by intellectual property rights that have been developed commercially and/or adopted;*  *ii) patents that have been issued;*  *iii) peer-reviewed publications*  *iv) Competitive R&D/Translation funding*  *v) letter of intent from customers or partners*  *Provide a statement describing the significance of each achievement (50 words/achievement)* |
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| **CO-APPLICANT** | |
| Full Name |  |
| Department |  |
| Division |  |
| Organisation |  |
| Address Line 1 |  |
| City/Town |  |
| Postcode |  |
| Country |  |
| Telephone No. |  |
| Email Address |  |
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| Previous Applications to the CAIM Research Fund | |
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| Salary Support & Employment Status | |
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| Clinical Status - Do you have a medical or veterinary qualification? | |
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| **Key achievements (Co-applicant)** |
| Provide references or examples of **five key achievements related to this application**, examples can include:  *i) inventions protected by intellectual property rights that have been developed commercially and/or adopted;*  *ii) patents that have been issued;*  *iii) peer-reviewed publications*  *iv) Competitive R&D/Translation funding*  *v) letter of intent from customers or partners*  *Provide a statement describing the significance of each achievement (50 words/achievement)* |
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| **Clinical Collaborators** |
| Detail any existing Bern University Hospital / UPD Department, or other clinical partners that you have collaborated with on this project to date |
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| Specify the Bern University Hospital / UPD Department, or other clinical partner that will be the lead clinical collaborator on this CAIM RF project |
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| **Technical Collaborators** |
| Detail any existing partners that you have collaborated with on this project to date |
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| Specify any partner that will be the collaborator on this CAIM RF project |
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| Specify any sub-contractor you plan to use in this CAIM RF project |
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| **PROJECT SUMMARY (Lay summary, 100 Words)** |
| Please provide a public description of the project |
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| **AI in Medicine (100 Words)** |
| Summarise specific aspects of AI in Medicine of the proposed project |
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| **Vision and Team (300 Words)** |
| What will be your key achievements with the CAIM RF funding? |
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| What will be your achievements long term and how will the CAIM RF allow you to reach them? |
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| How are your team and your collaborators uniquely positioned to deliver these achievements? |
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| **Impact (300 Words)** |
| 1. Unmet clinical need/burden of disease or condition |
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| 1. Impact on the health of the target population |
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| 1. Technical innovation |
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| **Current project status [500 Words - 1 Page]** |
| *Describe the scientific background to the project including, where appropriate, the validation of the medical application, therapeutic target or technology solution e.g. by citing the current standard of clinical methodology.*  *Describe:*  *(a) the current stage of development of your technology/approach*  *(b) the evidence that provides validation of your proposal to date and the data that supports your*  *technology, such as models/systems, algorithms, prototype design, or feasibility data. These can also come from a non-medical application in case the technology/approach will be transferred for medical use in this project*  *(c) the key assays, data sets and/or any other tools available to enable development of your*  *proposal (permitted Data Appendix)*  *(d) Brief contrast with the scientific, technical medical state-of-the-art* |
| Technology |
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| Originality and Innovation |
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| Clinical Validation |
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| Value Proposition |
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| Differentiation Advantage |
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| Risk Profile and Mitigation Measures |
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| **Project plan [1000 Words 2 -Pages]** |
| **Primary objective of the proposal and proposed project work plan** |
| Aims and Objectives |
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| Deliverables |
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| Technical |
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| Clinical |
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| Milestones achieved at the end of project |
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| Details of other resources leveraged against this application (e.g. matched resources/funding) |
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| Gantt Chart [Additional 1-page]  *Provide a Gantt chart or similar graphical overview of:*  *(a) tasks to be undertaken and their sequence and duration for the entire project, can be as work packages*  *(b) defined milestones (M1 - Mn) along the Gantt timeline*  *(c) tasks (marked separately) that will be undertaken in parallel but without CAIM RF support (if applicable) and funded by other external resources*  *(d) details of external resources (if any) contributing to related project tasks in the Gantt chart (set-out under (c)).*  *(d) key development steps foreseen after CAIM RF support.* |

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| **CAIM Embedded Ethics Lab** |
| *Projects supported by the CAIM RF should include approaches to highlight and research ethical questions raised by AI technology developed for medical applications* |
| **Details of work with the CAIM Embedded Ethics Lab in the proposed project (200 Words)** |
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| **Existing and Arising IP/Freedom to Operate (400 Words)** |
| Outline existing Intellectual Property Rights relevant to the project |
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| Explain how the proposed project will add value or strengthen an existing intellectual property position |
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| Outline any likely new intellectual property that may arise from this project and its value to the project output |
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| Is the proposed research, in whole or in part, subject to any legal agreements with commercial, academic or other organisations that could present a freedom to operate problem in the future? |
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| **Market and Commercial Exploitation (400 Words)** |
| Describe the competitive advantage of the proposed approach |
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| What are the subsequent development or implementation steps following the CAIM RF project? |
| *Please consider the following:*  *(a) who the downstream partner could be*  *(b) what are the regulatory risks?*  *(c) what is the likely clinical pathway?*  *(d) what is your possible product profile (e.g. key desired attributes of your healthcare innovation*) |
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| What would the implementation strategy be, including delivery and market penetration? |
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| Are there any clinical, manufacturing, regulatory or marketing issues known that may affect the ability to deliver the product to market? |
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| **OUTPUTS**  Please indicate the project's starting Technology Readiness Level (TRL) and the level intended to  be reached by the end of the CAIM RF project.  An example TRL metric can be found here:  [*https://ncai.nhlbi.nih.gov/ncai/resources/docs/Technology\_Readiness\_Guidelines%20(May2016).xlsx*](https://ncai.nhlbi.nih.gov/ncai/resources/docs/Technology_Readiness_Guidelines%20(May2016).xlsx)  If your technology does not fit into the NIH descriptions, please use a relevant adaptation.  Where possible you should pick the most closely related TRL category, but if you think that your technology does not fit within a TRL then please explain why. |
| **TRL at start of project** |
| **(… of 9)** |
| **TRL at end of project** |
| **(… of 9)** |
| **Technical** |
| How would reaching the technical objectives of the CAIM RF project enable next steps towards completing technical development? |
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| **Clinical** |
| What are the next steps at the end of the CAIM RF to enable clinical translation? |
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| **DATA OUTPUTS MANAGEMENT/SHARING** |
| When possible we encourage data sharing for research purposes, reproducibility and transparency. Are you interested in sharing your dataset (or part of it) at the end of the project? |
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| **Follow-On Funding (100 Words)** |
| What follow-on funding are you planning to access to fund the next key development steps after CAIM RF support? |
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| **Costs/Resources requested and justification** |
| Provide a detailed description of the budget for the type and volume of eligible costs requested |

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| **Personnel** | |
| Costs for personnel include salary support for research personnel or Co-PIs on time-limited contracts (e.g. PhD students, post-docs)/data managers at the University of Bern, and/or the Inselgruppe/Bern University Hospital and/or the Universitäre Psychiatrische Dienste Bern (UPD)/Bern University Psychiatric Services.  Salary costs of employees/students at other institutions are not funded | |
| **Salaries (Gehaltsklasse/Gehaltsstufe or PhD studentship)** |  |

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| **Other costs** | |
| **Materials & Consumables** |  |
| **Equipment** |  |
| **Animals** |  |
| **Resources (Imaging, Lab Services, Computing, Sequencing etc.)** |  |
| **Access Charges/Subscriptions/Licenses** |  |
| **Contract Research Organization/Clinical Trial Unit Services** |  |
| **Consultancy & Sub-contracting** |  |
| **Travel & Subsistence** |  |
| **Miscellaneous** |  |
| **TOTAL COSTS REQUESTED** |  |

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| **Details of Computational infrastructure/resources requested** |
| Priority CPU and GPU access at the high-performance computing of the University Bern (Ubelix) and/or the Inselspital (Insel Data Science Center) requested |
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| **Optional Annexes (no more than 20 Pages)** | |
| Up-to-date business plan |  |
| Scientific and technical studies |  |
| Preclinical/Feasibility/Pilot Clinical Data |  |
| Market assessment studies |  |
| Expert opinions |  |