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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 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 |  |
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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 (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 |
|  |
| 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 tobe 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%28May2016%29.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 |  |