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

**CAIM RESEARCH FUND FELLOWSHIP APPLICATION FORM**

Please read the full Funding Call Text and Application Guidelines for the CAIM Research Fund Fellowship Call 2023 University of Bern (UniBE) before completing the application process.

**Deadline for submission 25 September 2023 23:59 (CEST)**

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

Completed Application Form [ ]

Letter of Collaboration (clinical) **OR**   [ ]

Letter of Collaboration (technical/non-clinical) [ ]

Applicant CVs   [ ]

Gantt Chart [ ]

Letters of Support [ ]

Entrepreneurship Roadmap [ ]

Industry Endorsement (optional) [ ]

Optional Annexes [ ]

To aid processing of applications, please name your single PDF file in this format “**CRF\_Fellowship\_LastnamePI\_FirstNamePI**”

Please send any queries regarding applications to inti.zlobec@unibe.ch and use “**CRF\_Fellowship\_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/CAIM2023/>

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| **APPLICATION SUMMARY** |
| Application Title |
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| Application Summary (300 Words) |
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| Proposed Duration |  |
| Start Date |  |

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| **FELLOWSHIP 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 or by Supervisor/Line Manager |
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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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| [ ] areer Breaks |
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| **Key achievements CAIM Fellow** |
| *Provide references or examples of five key achievements related to this application, examples can include:**i) Peer-reviewed publications**ii) Clinical placements/collaborations**iii) Industry placements/collaborations**iv) Inventions protected by Intellectual Property (IP) rights, and examples of commercial applications for the IP**v) Honours, Awards and Prizes**Provide a statement describing the significance of each achievement (50 words max/achievement)* |
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| **Clinical Collaborators (if you are a non-clinical applicant)** |
| 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 clinical collaborator on this CAIM Fellowship project |
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| **Technical Collaborators (if you are a clinical applicant)** |
| 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 Fellowship project |
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| Specify any sub-contractor you plan to use in this CAIM Fellowship project |
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| **PROJECT SUMMARY ENGLISH (Lay summary English, 100 Words)** |
| Please provide a description of the project to the general public |
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| **PROJECT SUMMARY (Lay summary German, 100 Words)** |
| Please provide a description of the project to the general public |
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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 Fellowship funding? |
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| What will be your achievements long term and how will the CAIM Fellowship 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** [1-page Annex] |
| *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 Fellowship 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 Fellowship support.* |

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| **CAIM Embedded Ethics Lab** |
| *Projects supported by the CAIM Fellowship 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 FELLOWSHIP 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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| **Research Profile (300)** |
| Explain how the CAIM Fellowship will support your path to research independence |
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| **Follow-On Funding (200)** |
| What competitive career and/or project follow-on funding are you planning to access after the CAIM Fellowship? |
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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 FELLOWSHIP 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 Fellowship project enable next steps towards completing technical development? |
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| **Clinical** |
| What are the next steps at the end of the CAIM Fellowship 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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| **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 the CAIM Fellow or research personnel (e.g., PhD students, post-docs)/data managers at the University of Bern, and/or the Insel Gruppe/Bern University Hospital and/or the Universitäre Psychiatrische Dienste Bern (UPD)/Bern University Psychiatric Services and/or sitem-Insel.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** |  |
| **Entrepreneurship Courses** |  |
| **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 |  |