**Experiment Proposal Form**

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| Your text should be intelligible to scientists of various fields and engineers with a general scientific background.  Before you submit your proposal, please ensure that you have read all available information on the Überflieger 2 homepage.  To submit your proposal, please download the **Declaration of Participation** for registration and this **Experiment Proposal Form (EPF)**.  Forms and additional information can be found at [www.ueberflieger.space](http://www.ueberflieger.space).  The completed forms have to be sent electronically before the deadline to [info@ueberflieger.space](mailto:info@ueberflieger.space). | | |
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| **Team/Short experiment name** | *E.g. the acronym of the full experiment title*  Klicken Sie hier, um Text einzugeben. | |
| **Full experiment title** | Klicken Sie hier, um Text einzugeben. | |

**Science & Organization**

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| **Team Information** | |
| Student team leader: | *Include name, nationality, university, field of study, level of study (bachelor, master, diploma or PhD), academic year, date of birth and any additional team roles of the leader if applicable.*  Klicken Sie hier, um Text einzugeben. |
| Contact information of team leader: | *Include at least the phone number, email address and postal address.*  Klicken Sie hier, um Text einzugeben. |
| Members of your team: | *Include name, nationality, university, field of study, level of study (bachelor, master, diploma or PhD), academic year, and expected team role(s).*  Klicken Sie hier, um Text einzugeben. |
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| **Science** | |
| What is the scientific and/or technical objective of your experiment? | *This description should outline the scientific/technical question addressed, the assumptions made and the research methods chosen to solve the question. Expected results should be stated.*  Klicken Sie hier, um Text einzugeben. |
| Why do you need the environment aboard the ISS? | *Clarify, why your experiment cannot be done on ground and needs the environment provided by the ISS.*  Klicken Sie hier, um Text einzugeben. |
| What environmental characteristics do you require? | *E.g. level of micro-gravity, temperature, pressure…*  Klicken Sie hier, um Text einzugeben. |
| Where did you get the idea from? | *E.g. research program at your university, already performed similar experiment, scientific publications, books, …*  Klicken Sie hier, um Text einzugeben. |
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| **Describe your experiment** | *This part should link the scientific objective(s) to the experiment itself. Explain how you are going to fulfil the scientific goal.* |
| What data do you want to measure? | Klicken Sie hier, um Text einzugeben. |
| How do you want to take measurements? | Klicken Sie hier, um Text einzugeben. |
| Describe the process flow of your experiment. | Klicken Sie hier, um Text einzugeben. |
| What do you plan to do with your data after the mission? | Klicken Sie hier, um Text einzugeben. |
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| **Organization of your project** | *How will you organize/distribute work within your team? Please note that you are responsible for all aspects of your experiment (science, mechanical & electrical engineering, software, etc.)* |
| Are you scientifically and technically supported by institutes and/or senior scientists? | *Please indicate the name of the institute(s) and senior scientist(s). It is mandatory for every experiment to have someone at your university supporting you.*  Klicken Sie hier, um Text einzugeben. |
| Do you have access to a workshop or a laboratory that meets the fabrication and testing needs of your experiment? | Klicken Sie hier, um Text einzugeben. |
| Do you have all the material and equipment that is needed for your experiment? If not, how do you plan to obtain it? | Klicken Sie hier, um Text einzugeben. |
| How do you plan to finance your expenses above the 20,000 € provided through the competition? | Klicken Sie hier, um Text einzugeben. |
| Who else will support you (sponsors, others)? | Klicken Sie hier, um Text einzugeben. |
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| **Outreach Program** | |
| Describe your outreach program for before, during and after the mission. | *How are you planning to present your experiment to the public? E.g. newspaper, local radio, webpage, social media, presentation at the university, …*  *The execution of an outreach program is mandatory!*  Klicken Sie hier, um Text einzugeben. |

**Experimental Set-up & Technical Information**

Additional information can be found in the Cubelab Interface Control Document (ICD) online:

<https://ueberflieger.space/wp-content/uploads/2021/08/CubeLab-Interface-Control_Document-Rev2-1.pdf>

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| **Mechanics** | |
| Describe your experimental set-up. | *Describe and outline the preliminary set-up of your experiment. Include at least a sketch or block diagram of the experiment (CAD drawings are optional).*  Klicken Sie hier, um Text einzugeben. |
| Does your experiment fit within the 194.8 x 89.4 x 98.5 mm scientific insert? | *Take note that the inner dimensions of the container are slightly smaller. For more details please refer to the technical drawings on the website.*  Klicken Sie hier, um Text einzugeben. |
| Estimate the mass auf your experiment (kg). | *Do not include the experiment container in your mass budget.*  Klicken Sie hier, um Text einzugeben. |
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| **Electrics/Electronics** | |
| Will you use the 3.3, 5 or 12 V DC supplied by the 15-pin male D-Sub connector of the experiment container? | Klicken Sie hier, um Text einzugeben. |
| Do you have power requirements beyond the described connector (i.e. batteries)? What are they used for? | Klicken Sie hier, um Text einzugeben. |
| Estimate the electrical consumption of your experiment (Ah or Wh). | Klicken Sie hier, um Text einzugeben. |
| Do you use any equipment with high inrush currents? If so estimate the current (A). | *E.g. Motors may need high inrush currents which exceed the nominal allowed current limit.*  Klicken Sie hier, um Text einzugeben. |
| Do you need auxiliary power before or during launch? | *Auxiliary power for charging or consumption before launch is not standard. Mention here whether you need auxiliary power and why.*  Klicken Sie hier, um Text einzugeben. |
| Use of uplink and downlink: | *Please indicate expected data rates for uplink and downlink.*  *Please note: In addition to on-board storage, it is mandatory that you downlink housekeeping/scientific data during operations.*  Klicken Sie hier, um Text einzugeben. |
| Provide an event timeline, including the experiment actions during experiment operations such as timer or telecommand events. | *Describe your event timeline from start of on-orbit operations.*  Klicken Sie hier, um Text einzugeben. |
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| **Environmental Questions & Safety Issues** | |
| Does the experiment use wireless devices? | *E.g. Wifi (WLAN), Bluetooth, infrared, data transmitters. Describe the type of devices and frequencies used.*  Klicken Sie hier, um Text einzugeben. |
| Does the experiment create any disturbing magnetic or electrical fields? | Klicken Sie hier, um Text einzugeben. |
| Do you expect to use high voltages in any part of your experiment? | *Please indicate the voltage, its use within the experiment and any expected protection devices.*  Klicken Sie hier, um Text einzugeben. |
| Is the experiment sensitive to light? | *E.g. when you open the container.*  Klicken Sie hier, um Text einzugeben. |
| Is the experiment sensitive to vibrations? | Klicken Sie hier, um Text einzugeben. |
| Does the experiment generate vibrations? | *E.g. vacuum pump, rotating devices …*  Klicken Sie hier, um Text einzugeben. |
| Will you use any flammable, explosive, radioactive, corrosive, magnetic or organic products or batteries? | *Specify any products you will use with any of these characteristics.*  Klicken Sie hier, um Text einzugeben. |
| Will you use a laser? | *Which class? Is the laser path securely contained?*  Klicken Sie hier, um Text einzugeben. |
| Does your experiment or parts of it have to be airtight? | Klicken Sie hier, um Text einzugeben. |
| Is your experiment or parts of it pressurized? | *If yes, please provide the expected pressure level.*  Klicken Sie hier, um Text einzugeben. |
| Are there any hot parts (> 50°C)? | *Mention any parts besides electronics that heat up.*  Klicken Sie hier, um Text einzugeben. |
| Are there any moving parts? Are the moving parts reachable? | Klicken Sie hier, um Text einzugeben. |
| Is there any aspect in your experiment which you believe may be viewed as a safety risk by others (regardless of whether you will mitigate this risk in your design)? | Klicken Sie hier, um Text einzugeben. |
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| **Additional Information** | *Is there any information that is of importance for your proposal and not addressed above?* |
| Klicken Sie hier, um Text einzugeben. | |

*Drawings can be inserted below or on separate sheets and can be referenced in the above table.*