

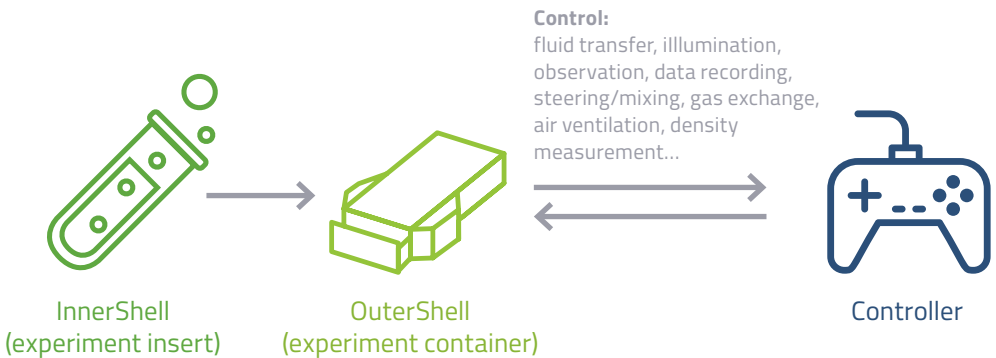


ScienceShell Hardware Portfolio

The **flight proved ScienceShell** hardware portfolio consist of standard experiment containers (Outer Shell) and specific experiment inserts (InnerShell). It is **offered on a leasing basis** and **can be used for flight and ground testing**.

The ScienceShell experiment sets interface mechanically and electrically with kiwi compatible facilities using a simple clip-in-place design.

The complete ScienceShell hardware portfolio **can be combined with the kiwi services ScienceBox and ScienceTaxi**.



ScienceShell FACTBOX

- ✓ Flight and safety certified and verified hardware portfolio for various science applications
- ✓ Shortened payload integration schedule and cost efficiency through leasing concept
- ✓ Form factor compatible to various facilities and microgravity platforms
- ✓ Ground equipment for training and science sequence testing

Thanks to a strong network of partners, kiwi is the only one to offer all types of microgravity platforms for ScienceShell: Parabolic Flight, Sub-Orbital, Orbital (ISS, LEO and beyond).



kiwi Controllers

- ▶ Autonomous execution of experiments
- ▶ Software for programming of timelines and controlling
- ▶ Data acquisition from internal sensors and monitors
- ▶ Execution of scheduled actions



kiwi OuterShells (Experiment Containers)

- ▶ Standardized design and interfaces
- ▶ Easy clip-in-place installation
- ▶ Various types and sizes



kiwi InnerShells (Experiment Inserts)

- ▶ Observation, Illumination, Plant Biology, Radiation Biology, Cell Biology, Stem Cell Research, Microbiology, Entomology Ecology and more

KIWI COMPATIBLE FACILITIES:

- STaARS-1 Experiment Facility, STaARS, permanent installed on ISS
- TangoLab 1 and 2, SpaceTango, permanent installed on ISS
- KUBIK, ESA, permanent installed on ISS
- ICE Cubes, Space Application Services, permanent installed on ISS
- ScienceTaxi, kiwi, Sortie missions for Orbital (ISS, LEO, and beyond), Sub-Orbital and Parabolic Flight)

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