

COLIVINGLIGURIA

Benefit Company pathway in progress; innovative-startup
SIAVS registration requested
Strada Chiappella, 21, 17014 Cairo Montenotte (SV), Italy
P.IVA 01939660096 • REA SV - 248967
colivingliguria@pec.it • colivingliguria@gmail.com



Internship Project Proposal

Luna Mechanical and Aerostatic
Internship — Inte-006
Issuer: ColivingLiguria S.r.l.
Inte-006

This Intel form presents an internship project in a compact academic format. It is a project proposal and operational plan: it does not create employment, does not replace a student-specific ConI internship agreement, and does not activate the internship without the required university/promoting-entity paperwork and insurance confirmation.

Project Identification

Form code	Inte-006
Project code	LU-MECH / Inte-006
Project title	Luna Mechanical and Aerostatic Structure: Envelope, Frame, Lift, Tethers, and Wind Stability
Track / area	Curricular internship / deep-tech engineering and applied research / Mechanical engineering, aerospace-adjacent engineering, CAD, structural design, aerostatics, and wind stability
Host entity	ColivingLiguria S.r.l. (Benefit Company and SIAVS pathways in progress)
Supervisor	Simone Testino
Location	Hybrid: Cairo Montenotte project base, Luna documentation system, and remote modeling/software work
Mode	Hybrid or on-site; prototyping and physical testing require supervised on-site sessions
Source documents	Luna engineering notes, PF-LU-001 ESG report, ENAC inquiry, product compliance register, ConI, Attachment G

Student Identification

Candidate	Candidate to be identified
University	Promoting university to be identified
Programme	Mechanical engineering, aerospace engineering, civil/structural engineering, mechatronics, applied physics, or equivalent
Academic level	Minimum: final-year Bachelor student with CAD and mechanics; preferred: Master student or thesis-level intern
Student email	To be defined
Academic tutor	To be defined by the promoting university
Insurance / activation	Internship cannot start until INAIL/RC or equivalent accident and civil-liability coverage is confirmed by the promoting entity
Language	English B2 minimum; Italian useful for suppliers and local testing
Status	Open internship proposal

Quantitative Internship Data

Start window	Open after project scope alignment and university/promoting-entity approval
Indicative duration	10–12 weeks standard track; extendable to 3–6 months for thesis, modeling, or prototype work
Expected workload	Approx. 25–30 hours/week
Total expected hours	300 hours
University credits	12 ECTS / CFU equivalent
Credit calculation note	Calculated at 25 hours per ECTS. The final credit value remains subject to the promoting university's rules.
Form date	18 July 2026

Objective

Develop the mechanical and aerostatic design package for Luna: envelope geometry, internal frame, payload budget, lift model, tether layout, wind-stability assumptions, transportability, and prototype-ready mechanical documentation.

ConI, Eligibility, and Responsibilities

Standard Luna Intel proposals are intended for students actively enrolled, at the moment of application and activation, in a European university or equivalent recognised higher-education institution. Strong non-standard candidates require separate legal review before acceptance.

Every candidate must read the current ConI Internship Agreement before submitting a final application. ConI governs responsibilities, insurance, academic activation, confidentiality, intellectual-property access, and the distinction between an educational internship and employment.

Minimum Candidate Profile

The candidate must be comfortable with mechanics, CAD, structural reasoning, and quantitative assumptions. Preferred skills include SolidWorks/Fusion/FreeCAD, finite-element basics, lightweight structures, tethered systems, aerostatics, wind-load estimates, and workshop-safe prototyping.

Work Plan

The internship work plan must allocate all expected hours to concrete phases and must match the ECTS/CFU value declared in the quantitative data block.

Phase	Activities	Hours
1	Read Luna overview, lift/buoyancy, wind-stability, materials, ESG and ENAC documents; define mechanical scope and assumptions.	35
2	Build payload and lift budget: envelope, frame, LEDs, electronics, cable, tethers, safety factors, and helium margin.	55
3	Develop CAD/mechanical concept for envelope support, internal frame, attachment points, access, and serviceability.	80
4	Analyze tether geometry, anchor loads, wind scenarios, failure modes, transport, setup, and safe operating limits.	65
5	Prepare BOM, prototype method, test protocol, drawing package, and go/no-go matrix.	45
6	Deliver final mechanical report and handover presentation.	20

Deliverables and Evaluation

CAD/drawing package; lift and payload spreadsheet; tether and wind-stability memo; mechanical BOM; setup and maintenance protocol; risk register; prototype test plan; final report.

Operational Boundaries

The intern may not authorize flight, public deployment, lifting tests over people, tether installation, or ENAC/EASA compliance claims. Physical prototypes require supervised approval.

Future Collaboration Path

A successful Luna internship may lead to later thesis supervision, prototype collaboration, paid professional collaboration, startup work, or funding-search support through Commenda, where legally and academically compatible.

PDF Attachment Register

Ref.	Code	PDF attachment
A	PF-LU-001	Luna environmental and ESG impact report PDF.
B	LE-LU-001	ENAC inquiry / regulatory communication PDF.
C	ConI	Current Internship Agreement, mandatory candidate reading.
D	Attachment G	Confidentiality and digital-access framework.

For ColivingLiguria S.r.l.

Unsigned project proposal prepared by the host entity; this PDF does not evidence a CAdES/P7M signature

ColivingLiguria S.r.l.

VAT/Tax Code: 01939660096 Sole Director: Simone Testino

PEC: colivingliguria@pec.it