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 Applied Physics, Optics, and Thermal Internship — Inte-009

Issuer: ColivingLiguria S.r.l.

Inte-009

This Inte1 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-009**
Project code	**LU-PHY / Inte-009**
Project title	Luna Applied Physics: Optical Coverage, LED Efficiency, Helium Cooling, and Thermal Limits
Track / area	Curricular internship / deep-tech engineering and applied research / Applied physics, optics, photometry, heat transfer, thermodynamics, and experimental validation
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	Applied physics, energy engineering, optical engineering, mechanical/aerospace engineering, materials science, or equivalent
Academic level	Minimum: final-year Bachelor student with physics/math base; 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

Quantify Luna's optical and thermal performance: luminous flux, lux coverage, diffusion, glare, LED efficiency, helium convection, envelope heat rejection, thermal thresholds, and measurement protocol.

ConI, Eligibility, and Responsibilities

Standard Luna Inte1 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 understand physics-based modeling and experimental measurement. Preferred skills include photometry, heat transfer, thermodynamics, Python/Matlab, uncertainty analysis, sensors, and scientific reporting.

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 lighting, thermal, safety, materials, and technical overview notes; define optical/thermal questions.	35
2	Develop optical coverage model: height, luminous flux, beam angle, diffusion, lux maps, and glare constraints.	70
3	Develop thermal model: LED waste heat, helium convection, fan assumptions, envelope heat rejection, and thresholds.	75
4	Design measurement protocol using lux meters, thermal sensors, controlled mockups, and uncertainty logs.	50
5	Compare model results with available tests or simulated scenarios; prepare design recommendations.	50
6	Deliver final physics report and presentation.	20

Deliverables and Evaluation

Lux/coverage model; thermal model; measurement protocol; sensor/test plan; uncertainty analysis; LED/fan/diffuser recommendations; final report.

Operational Boundaries

No public performance claim, safety rating, or certification may be made from student models alone. Physical tests require supervised approval and safe electrical setup.

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