

COLIVINGLIGURIA

Benefit Company pathway in progress; innovative-startup
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Internship Project Proposal

Luna Verification, Test Engineering,
and Metrology Internship —
Inte-013
Issuer: ColivingLiguria S.r.l.
Inte-013

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-013
Project code	LU-VTM / Inte-013
Project title	Luna Verification and Metrology: Test Architecture, Instrumentation, Uncertainty, and Evidence
Track / area	Curricular internship / verification engineering, metrology, and experimental validation / Test and measurement engineering, metrology, mechanical and aerospace engineering, electronics and instrumentation, applied physics, data analysis, reliability, and quality engineering
Host entity	ColivingLiguria S.r.l. (Benefit Company and SIAVS pathways in progress)
Supervisor	Simone Testino
Location	Hybrid: remote test planning and data work, supervised bench activity at the Cairo Montenotte project base, and future field-test interfaces only after the applicable regulatory, site, equipment, and safety gates are closed
Mode	Hybrid; requirements, models, data processing, and reporting may be remote, while instrumentation, calibration, prototypes, and measurements require supervised on-site sessions
Source documents	Luna engineering models, laboratory brief, product compliance register, PF-LU-001, LE-LU-001, test notes, ConI, and Attachment G

Student Identification

Candidate	Candidate to be identified
University	Promoting university to be identified
Programme	Measurement or test engineering, applied physics, mechanical, aerospace, electronic, automation, reliability, quality, data, or equivalent engineering programme
Academic level	Minimum: final-year Bachelor student with quantitative laboratory experience; preferred: Master student or thesis-level intern in metrology, experimental mechanics, instrumentation, or validation
Student email	To be defined
Academic tutor	To be defined by the promoting university
Insurance / activation	Internship cannot start until IN-AIL/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 scope alignment and university/promoting-entity approval; physical testing starts only after the relevant procedure, equipment, supervision, and stop criteria are approved
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

Build a reproducible verification and validation system for Luna that connects requirements and physical models to test methods, instruments, uncertainty budgets, traceable records, acceptance criteria, and model-to-test decisions. The work must improve evidence quality without presenting a research prototype as certified, safe for operation, or technically validated beyond the exact tests performed.

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 measurement uncertainty, calibration discipline, quantitative analysis, experimental planning, and transparent negative results. Minimum requirements include sound physics or engineering fundamentals, spreadsheet or Python-based data handling, safe laboratory behaviour, and rigorous documentation. Preferred skills include data acquisition, sensors, signal conditioning, calibration, GUM-style uncertainty analysis, design of experiments, reliability, statistics, optical or thermal measurement, load testing, and reproducible notebooks.

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	Review Luna requirements, models, compliance boundaries, existing calculations, laboratory constraints, and test evidence; define the selected verification work package and stop points.	35
2	Create the verification cross-reference matrix linking requirements, risks, assumptions, models, test methods, instruments, data owners, and acceptance evidence.	45
3	Design measurement chains, calibration checks, sampling and uncertainty budgets for selected mechanical, aerostatic, optical, thermal, electrical, or control quantities.	55
4	Develop fixtures, procedures, scripts, data schemas, and dry-run protocols; perform only approved supervised bench tests and preserve raw data, deviations, and negative findings.	70
5	Analyse results, compare models with measurements, quantify uncertainty and sensitivity, refine acceptance criteria, and prepare the next-test decision package.	65
6	Deliver the verification dossier, reproducible data package, final report, presentation, and technical handover.	30

Deliverables and Evaluation

Verification cross-reference matrix; test architecture; measurement-chain and instrument register; calibration and traceability plan; uncertainty budgets; design-of-experiments plan; test fixtures or drawings where applicable; approved test procedures and stop criteria; raw and processed data schema; reproducible analysis scripts or notebooks; model-to-test comparison; deviation and negative-results log; acceptance recommendation; final report; and presentation.

Operational Boundaries

The internship does not perform certification, conformity assessment, flight approval, public demonstration, or autonomous outdoor aerostatic testing. No measurement may be presented beyond its stated method, configuration, calibration status, uncertainty, and validity interval. Pressurised, electrical, thermal, lifting, work-at-height, helium, load, or outdoor activities require approved procedures, competent supervision, training, suitable equipment, and documented stop criteria. Field tests remain excluded until the LE-LU-001 classification, site, authorisation, insurance, and safety gates are closed. Confidential technical evidence remains subject to Attachment G and need-to-know access.

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.

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