

COLIVINGLIGURIA

Limited Liability Company –

Strada Chiappella, 21, 17014 Cairo Montenotte (SV), Italy

P.IVA 01939660096 • REA SV - 248967

colivingliguria@pec.it • colivingliguria@gmail.com



Internship Project Proposal

Smart Composter Internship —

Inte-001

Issuer: ColivingLiguria S.r.l.

Inte-001

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-001
Project code	EC-WA-002 / Inte-001
Project title	Smart Composter: Sensors, Bioprocess Monitoring, and Composting Data Protocol
Track / area	Curricular internship / applied R&D / Environmental sciences, biotechnology, IoT, and circular-economy operations
Host entity	ColivingLiguria S.r.l. Benefit Corporation
Supervisor	Simone Testino
Location	Strada Chiappella 21, 17014 Cairo Montenotte (SV), Italy — outdoor waste-management area
Mode	Primarily on-site, with remote documentation and software work allowed
Source documents	EC-WA-001, EC-WA-002, Attachment W, EE-WA-001, ConI, Attachment G

Student Identification

Candidate	Candidate to be identified
University	Promoting university to be identified
Programme	Biotechnology, environmental sciences, environmental engineering, agronomy, electronics, robotics, computer engineering, data science, or equivalent
Academic level	Minimum: final-year Bachelor student; 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 helpful for site operations and local suppliers
Status	Open internship proposal

Quantitative Internship Data

Start window	After completion and stable commissioning of EC-WA-001
Indicative duration	10 weeks standard track; extendable to 3–6 months for seasonal data or thesis work
Expected workload	Approx. 30 hours/week, normally 5 days/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	13 July 2026

Objective

Design, install, calibrate, and document a smart monitoring layer for the ColivingLiguria rotating composter. The internship must turn the composter into a measured environmental system: temperature, ambient conditions, rotation, loading records, moisture estimates, pH checks, odor/leachate notes, and wildlife indicators must become reliable operational data. The final goal is not to authorize all organic waste by assumption, but to produce evidence that supports or rejects future changes to Attachment W.

ConI, Eligibility, and Responsibilities

Standard 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. Non-standard cases 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 enrolled in a relevant university programme and able to combine environmental reasoning with practical measurement. Minimum requirements: basic understanding of composting, microbiology, environmental chemistry, agronomy, or waste-management processes; ability to work safely outdoors with PPE; capacity to maintain a clean experimental log; basic spreadsheet/data-analysis skills; and willingness to learn simple embedded sensing or collaborate with software/robotics students. Preferred skills include Arduino/ESP32 or equivalent microcontrollers, Python or data dashboards, sensor calibration, pH/moisture protocols, and scientific report writing. The candidate must accept that meat, fish, dairy, bones, fats, and cooked protein scraps remain prohibited unless a later written protocol and Attachment W revision expressly allow a controlled test.

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 the four technical and legal attachments; confirm site constraints, PPE, operational boundaries, and the baseline data schema.	10
2	Research and design the sensor package, wildlife-protection interface, passive-insulation measurement logic, solar-powered datalogger architecture, and calibration protocol.	75
3	Build or supervise the MVP: temperature probes, ambient sensor, rotation and door events, data storage, dashboard, protected wiring, commissioning tests, and maintenance instructions.	95
4	Run a plant-only baseline period, collect logs, compare central and peripheral temperatures, moisture estimates, pH checks, odors, leachate, wildlife signs, and seasonal insulation condition.	85
5	Analyze the dataset, document seasonal and operational limits, prepare the final technical report, and recommend whether any Attachment W revision should be considered.	35

Deliverables and Evaluation

Sensor bill of materials; wiring and enclosure diagram; calibration and maintenance protocol; firmware/scripts or data-export method; dashboard or structured CSV/JSON register; 30-day minimum plant-only baseline dataset; weekly pH/moisture notes; final technical report; and a decision memo classifying the system as green, yellow, or red for any future critical-scrap experiment.

Operational Boundaries

EC-WA-001 is the basic composter project and accepts only materials allowed by Attachment W. Its passive removable insulation jacket is already part of the construction and may be monitored but not modified informally. EC-WA-002 is the separate R&D extension for fencing, sensors, data logging, and scientific evaluation. The solar panel may power sensors and logging only; it must not power heaters. No uncontrolled meat/fish/dairy/bone/fat experiment is permitted.

Future Collaboration Path

A successful internship may lead to future personal or professional collaboration, where legally and academically compatible. ColivingLiguria and the Commenda project may also help suitable graduates identify European, regional, or national funding calls to start their professional path during or after university.

PDF Attachment Register

Ref.	Code	PDF attachment
A	EC-WA-001	Basic rotating composter construction project, English PDF.
B	EC-WA-002	Smart Composter R&D extension, English PDF.
C	Attachment W	Binding organic-waste and composting rules, English PDF.
D	EE-WA-001	Waste-management and ecological-behavior technical report, English PDF.
E	ConI	Current Internship Agreement, mandatory candidate reading.
F	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