### **UF Green Lab Certification Rubric**

Principal Investigator:	Date:
Department:	
Building:	Room(s):

#### **Overview & Instructions:**

The UF Green Lab Certification rubric addresses sustainable behaviors, conservation efforts, and environmentally-friendly infrastructure applicable to laboratory settings. Through EH&S evaluation of the weighted rubric, labs can achieve graded levels of green lab certification:

- **Green**: Awarded to labs that achieve ≥90% lab assessment scores
- **Gold**: Awarded to labs that achieve ≥80% lab assessment scores
- **Silver**: Awarded to labs that achieve  $\geq$ 70% lab assessment scores •

To be recognized as a certified green lab, laboratories will be assessed in accordance with a green lab certification rubric. The certification rubric is first completed by lab staff as self-assessment. Thereafter, the rubric is passed along to EH&S Research Services (greenlabs@ehs.ufl.edu) in order to schedule an onsite sustainability survey. Upon EH&S evaluation, labs will receive a final score. Graded levels of green lab certification that will be displayed on the lab notice boards.

Unless otherwise specified, the scoring will adhere to the following: Complete = 1 pt; Partial = 0.5 pt; No = 0 pt; N/A = excluded from total score

#### Equipment:

Turn off energy consuming appliances/equipment when not in use (implement "turn me off" labeling). Notable laboratory equipment includes:

🗌 Complete 🔲 Partial 🔲 No	🗌 N/A	Thermocyclers
🗌 Complete 🗌 Partial 🗌 No	🗌 N/A	Refrigerated centrifuges
🗌 Complete 🗌 Partial 🗌 No	🗌 N/A	Biosafety cabinets
🗌 Complete 🗌 Partial 🗌 No	🗌 N/A	Incubators/environmental chambers/ovens
🗌 Complete 🗌 Partial 🗌 No	🗌 N/A	Refrigerators/freezers
🗌 Complete 🗌 Partial 🗌 No	🗌 N/A	Computers
🗌 Complete 🗌 Partial 🔲 No	🗌 N/A	Other, please describe:
Complete Partial No N/A (standby/sleep modes).	Equipm	ent, notably computers, use energy saving modes

#### Ultra-Low Temperature Freezers (ULTs):

	Complete Partial No N/A Units are staged in centralized location/room, maintaining 6-8" free perimeter, near an exhaust duct.								
	Complete	Partial	🗌 No	🗌 N/A	Temperature setpoint increased from -80°C to -70°C.				
	Complete	Partial	🗌 No	🗌 N/A	An accurate inventory of contents in maintained.				
	Complete	Partial	🗌 No	🗌 N/A	Minimize the duration in which the door is kept open.				
	Complete	Partial	🗌 No	🗌 N/A	Keep the unit well-stocked.				
	Complete	Partial	🗌 No	🗌 N/A	Share/consolidate cold storage space.				
	Complete are defrosted,	Partial as needed.	□ No	□ N/A	Door/gasket ice build-up is regularly removed. Units				
	Complete	Partial	🗌 No	🗌 N/A	Filters are routinely cleaned/replaced.				
	Complete	Partial	🗌 No	🗌 N/A	Coils are routinely cleaned.				
	Complete	Partial	🗌 No	🗌 N/A	Regular preventative maintenance.				
<u>Biosafe</u>	ty Cabinets (BS	<u> (Cs):</u>							
	Complete discouraged.	Partial	🗌 No	□ N/A	The use of UV light in biosafety cabinets is				
	Complete professionally	Partial certified.	🗌 No	□ N/A	Biosafety cabinets are regularly (annually)				
	Complete Complete Complete	Partial	🗌 No	□ N/A	The BSC catch basin is regularly cleaned and is void of				
<u>Fume H</u>	loods:								
	Complete	Partial	🗌 No	🗌 N/A	Lower fume hood sash when not in use.				
	Complete (i.e. not raised	Partial all the way	□ No / up).	□ N/A	The sash level is appropriate when work is ongoing				
	Complete in the fume he	Partial Dod.	🗌 No	□ N/A	Minimize the storage of erroneous items/equipment				
	Complete Or reagents to	Partial circumven	□ No t approp	□ N/A priate was	The fume hood is not utilized to evaporate chemicals ste disposal methods.				
<u>Incubat</u>	<u>:ors</u> :								
	Complete	Partial	🗌 No	🗌 N/A	Incubators are not utilized as refrigerators.				

### Computers/Printers:

🗌 Complete 🔲 Partia	I 🗌 No	🗌 N/A	Share printers as opposed to personal units.
🗌 Complete 🛛 Partia	I 🗌 No	🗌 N/A	Only print when necessary.
🗌 Complete 🗌 Partia	I 🗌 No	🗌 N/A	Double-sided printing.
🗌 Complete 🛛 Partia	I 🗌 No	🗌 N/A	Black and white as opposed to color printing.
🗌 Complete 🛛 Partia	I 🗌 No	🗌 N/A	Utilize recycled paper.
Autoclaves/Dishwashers:			
🗌 Complete 🛛 Partia	I 🗌 No	🗌 N/A	Regular preventative maintenance and calibration.
Complete Partia use guidance poster).	I 🗌 No	□ N/A	Autoclaves operated efficiently (refer to autoclave
🗌 Complete 🔲 Partia	I 🗌 No	🗌 N/A	The unit is loaded at optimal (maximal) capacity.

### Green Chemistry:

Complete Partial No N/A	Maintain an accurate chemical inventory (reducing erroneous
purchases, expired chemicals, etc.).	
Complete Partial No N/A	Alternative chemicals.
Complete Partial No N/A	Minimize generation of waste.
Complete Partial No N/A	Energy-efficient experimental design.
Complete Partial No N/A	Implementation of other principles of Green Chemistry.

#### Water Conservation:

Complete	Partial	🗌 No	🗌 N/A	Turn off the water faucet/tap when it is not in use.
Complete	Partial	🗌 No	🗌 N/A	Do not allow water sources to run longer than necessary.
Complete efficiently.	Partial	🗌 No	□ N/A	Dishwashers used in lieu of handwashing and utilized
Complete	Partial	🗌 No	🗌 N/A	Low-flow faucet water aerators.
Complete vs. DI).	Partial	🗌 No	□ N/A	Conscious water quality selections are made (ex. Tap vs. RO
Complete	Partial	🗌 No	🗌 N/A	Utilize membrane/diaphragm/oil free pumps or we use the

house vacuum system instead of water-vacuum aspirators.

Complete washing.	Partial	🗌 No	□ N/A	When possible, glassware is reused to minimize the need for
Complete	Partial	🗌 No	🗌 N/A	Faucets are free of leaks.
Complete	Partial	🗌 No	🗌 N/A	Reusable alternative to ice (e.g. Lab Armor beads).

# Recycling:

Complete	Partial	🗌 No	🗌 N/A	Recycle DI water filtration units.
Complete	Partial	🗌 No	🗌 N/A	Recycle empty tip boxes.
Complete	Partial	🗌 No	🗌 N/A	Recycle cardboard/paper.
Complete	Partial	🗌 No	🗌 N/A	Recycle bottles/glassware.
Complete	Partial	🗌 No	🗌 N/A	Recycle ink/toner cartridges.
Complete	Partial	🗌 No	🗌 N/A	Recycle batteries and/or other universal waste.
Complete	Partial	🗌 No	🗌 N/A	Recycle solvents (e.g. acetone)
Complete Schemes.	Partial	🗌 No	□ N/A	Select suppliers who offer product and packaging take-back
Complete	Partial	🗌 No	🗌 N/A	Participation in the UF Chem Swap program.

# Sustainable Purchasing:

Complete Partial No N/A W individual purchases.	/henever, possible, share equipment as opposed to making
Complete Partial No N/A Pu Accountability, Consistency, and Transparence packaging, and end-of-life.	urchase ACT-labeled products which emphasize cy ( <u>ACT</u> ) around manufacturing, energy and water use,
Complete Partial No N/A Pu	urchase products produced from recycled plastic.
□ Complete □ Partial □ No □ N/A Pu including eco-friendly disposable gloves).	urchase products that are readily biodegradable (notably
□ Complete □ Partial □ No □ N/A Pu	urchase bagged conical tubes instead of Styrofoam racked.
☐ Complete   ☐ Partial   ☐ No   ☐ N/A   Ut	tilize reusable products in lieu of disposable.
Complete Partial No N/A Us	se stackable or refillable tip boxes.

# Facility Design / Infrastructure:

Complete Partial No N/A Lights are turned off when the lab is vacant (or the room is equipped with occupancy sensors).
Complete Partial No N/A Lab doors are kept closed.
Complete Partial No N/A If capable of being opened, windows are kept closed.
Complete Partial No N/A Window blinds/shades are lowered.
Complete Partial No N/A Lab is free of general maintenance issues (ex. Poorly sealed windows, wall penetrations, missing ceiling tiles, etc.).
Complete Partial No N/A Thermostats are not obstructed or burdened (i.e. in direct sunlight or heat produced by nearby equipment)
Complete Partial No N/A Only essential equipment connected to emergency power.

### Engagement:

Complete Partial No	🗌 N/A	Sustainable behaviors incorporated into lab standard
operating procedures (SOPs).		

Complete	🗌 Partial	🗌 No	🗌 N/A	Disseminate green la	b initiatives	(such as	displaying
posters/notic	es, departm	ental er	nails, etc	.).			

Complete	🗌 Partial	🗌 No	🗌 N/A	Provide feedback to EH&S (greenlabs@ehs.ufl.edu; 352-392
1591).				

### **General Safety**:

Complete Par	rtial 🗌 No	🗌 N/A	Does the laboratory have a current and accurate LATCH
hazard assessment?			

Complete	Partial	🗌 No	🗌 N/A	Are all personnel	up-to-date wi	th required tr	aining courses
specified in the	e LATCH ha	zard ass	essment	?			

Complete	Partial	□ No	□ N/A	Is the lab free of an	v outstanding	corrective actions?
					y outstanding	

Complete Partial No N/A	Is the lab free of repeat corrective actions as indicated in the
most recent research safety survey?	

Waste Management: [Complete = 1 pt; Partial = 0.5 pt; No = 0 pt; N/A = excluded from total score]
Complete Partial No N/A When possible, minimize single-use items in the laboratory environment.
□ Complete □ Partial □ No □ N/A The satellite accumulation area (SAA) is free of excessive, outstanding, or repeat corrective actions.
Complete Partial No N/A Appropriately distinguish between biomedical and biological, but non-biomedical, waste streams.
Complete Partial No N/A Separate halogenated, aqueous, and non-aqueous wastes.
Individual Completing Self-Assessment:
Self-Assessment Completion Date:
*Upon completion of the self-assessment, please send to greenlabs@ehs.ufl.edu
To be completed by EH&S:
Individual Completing Evaluation:
Evaluation Date:
Evaluation Score: