

**IDEA #4: Laboratory Building Recommissioning --> Green Labs Program**

**PROJECT CONCEPT:** Renamed **Green Labs Program** with electricity and ventilation components. This would be the precursor to a laboratory building recommissioning program

**A. Electricity**

This project is based on a program at the University of Colorado, where a half-time Green Labs Program Manager with 15 years of laboratory bench experience is establishing a peer to peer relationship with UC laboratory staff while identifying and developing laboratory electricity conservation opportunities. The UVM CEF would fund a program manager with a similar level of laboratory experience and a student assistant with appropriate skills to run a pilot program that 1) involves individual laboratory members in identifying opportunities for efficiency in their laboratory and promoting efficient behavior among laboratory members; 2) upgrades inefficient laboratory equipment and techniques and 3) Encourages labs to turn equipment off when not in use, and to retire unnecessary or duplicate equipment.

This person would work out of the Office of Sustainability, and be in close contact with staff in the UVM offices of Energy Management (PPD) and Environmental Safety to develop conservation opportunities such as purchase of Energy Star equipment, timed operation of energy-intensive equipment, and scientific review of alternative sample specimen storage techniques. Funding for equipment modifications and upgrades would be provided by the Office of Energy Management in the Physical Plant Department. Experiences on other campuses indicate that it is reasonable to expect a financial payback of less than two years.

**B. Ventilation**

CEF funding would provide funding for an outside consultant to work with the Office of Sustainability to organize the information necessary to develop an ANSI-compliant laboratory ventilation management plan and identify opportunities within the institutional master plans to implement necessary upgrades.

This staff will require a skill set distinct from, but related to, the electricity conservation manager described above. They will rely on occupational health and ventilation engineering expertise as well as outreach to the laboratory population. Funding for this work should be matched by UVM administration, colleges and the CEF. The Harvard Green Campus program presents a possible model for such collaboration.

<u>Project component</u>	<u>Staff time</u>	<u>Amount requested</u>
<b>Electricity conservation manager*</b>	0.5 FTE	\$40,000
<i>Equipment modifications and upgrades**</i>		\$25,000+
<b>Ventilation manager*</b>	1.0 FTE	\$55,000
<b>Operating costs</b> (consultants)		\$20,000
<b>Total CEF funding requested:</b>		<b>\$115,000</b>

\* Includes salary + benefits  
 \*\* Funding provided by Physical Plant Office of Energy Mgt, Revolving Loan Fund