

**ISIT/FACILITIES/OTHER EQUIPMENT REQUEST 2018:**

Program or Service Unit: General Biology

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Funding Source or needs funding: Needs funding

Please explain; Purchase Thermal Cyclers

**PLEASE NOTE: If you have multiple requests, please submit multiple forms.**

*Please share as many details as possible such as room location(s), type of equipment and/or software requested. If you have a cost estimate, that would be helpful, we will contact you for more details.*

*Please share as many details as possible such as room location(s), type of facilities request, remodel or construction request, safety concern, or furniture request.*

You will have an opportunity to present your request to the ISIT/FACILITIES OR CTE committee.

I am requesting the following: General Biology Equipment.

- Thermal Cycler – \$7,000 (Bio Rad)
  - A critical piece of equipment is the thermal cycler. Thermal cyclers are essential laboratory equipment for researchers who run polymerase chain reaction (PCR) for sequencing, cloning, genotyping, mutagenesis, and many other applications.
- 2 new incubators for Biological Assays – \$4,948 (ThermoFischer Scientific)
  - Current incubators are old and do not provide adequate space.
- Large (49 cubic foot) glass front lab refrigerator - \$10,346.64 (VWR)
  - For storage of student plates and media during the week and over the weekend. Current refrigerators are not large enough to accommodate all of the microbial storage needs.
- 2 Moticam Pro 285A CCD Color Scientific Microscope Cameras - \$8,232 (Amazon)
  - Capturing images and video in lab as well as demonstrating to students.
- 8 Vernier Lab Quest 2 Deluxe Package - \$14,744 (\$1,843 Each at Verneir.com)
  - This amazing kit will allow biology students to conduct more advanced experiments and enhance current labs through real time data monitoring.
- Logger Pro Software - \$249 (Verneir.com)
  - Allows visualization of results from Lab Quest hardware

Technology is transforming our lives on a daily basis. The requested equipment will provide students the opportunity to be trained in procedures that are used in many aspects of biological research as well be trained for employment in hospitals and laboratories. This equipment will be used in several Biology courses (BIOL-B8, B3A, B3B and B16).