

**Support for the Use of Zebrafish in K-12 Science Education**  
**Call for Proposals 2013**

Two Aquaneering Education Racks (“E-Racks”) have been donated to organizers of the Midwest Zebrafish Meeting Education Session. These racks will be awarded to K-12 teachers who have demonstrated need for a stable multi-tank system in order to advance their plans to use zebrafish in their classrooms.

The racks have two shelves, one with five 2.8-L and one with eight 1.8-L tanks. Six breeding tanks are included for embryo production. This is a self-contained system with a four-step filtration process to maintain consistent water quality for the fish. All that is required is access to a water supply (a carbon pre-filter for the removal of chlorine/ chloramines is included with the system) and a floor drain or sink for water discarded during daily exchanges. The racks are on casters and can be transported from their permanent locations to a lab or classroom whenever needed. Overall rack dimensions: 41” wide x 20” deep x 63” tall

Approximate yearly cost for consumables:

<b>Description</b>	<b>Cost</b>
18 Watt UV Replacement Lamp	\$26
Carbon Filter Sleeve (12") 6 each	\$66
Activated Carbon 6 Lbs.	\$27
Fish Food – 1 Lb. Bag Scientific Hatcheries Diet (2)	\$20
6-Way Test Strips (24/pack) 5-Way strip for alkalinity, pH, nitrite, nitrate, hardness. Separate ammonia strip.	\$20
<b>Total</b>	<b>\$159</b>

**Instructions:**

Proposals Due: August 2, 2013

Awards made by August 31, 2013

Submit proposal, questions about the proposal or questions about the rack to Bobbi Baur ([bobbi@aquaneering.com](mailto:bobbi@aquaneering.com))

Proposals to be reviewed by independent judges currently working with zebrafish and committed to promoting the use of zebrafish in education.

**Proposal Format:**

1. Teacher name
2. Date
3. School name
4. Mailing address
5. e-mail address
6. Phone number

7. Description of previous experience using zebrafish or Medaka in the classroom. Please include grade level, course(s), and number of students. Also indicate whether any results stemming from this work have been submitted for publication or presented at local, regional, or national conferences. (1 page, single-spaced maximum)

8. Description of intended use for rack, including grade level, course(s), and number of students that will be given the opportunity to work with the fish. State also whether and how results and/or novel teaching methods will be shared with others within or outside your school. (2 pages, single-spaced maximum)

Qualities that will be used to evaluate proposal:

- Use of inquiry-based and hands-on approaches
- Connection of curricula with specific learning goals and state or national science standards
- Need for a multi-tank system
- Broader impacts: intent to share findings/methods with other teachers within or outside your institution.

9. Description of other financial support for this project.



Image of E-rack showing 1.8 liter tanks on top shelf, 2.8 liter tanks on second shelf, and breeding tanks below the second shelf.



2012 eRack recipient Lincoln K-8 School