2014-2015 BEF Classroom Innovation Grants

College and Career Readiness
School: Aloha-Huber K-8
Recipient: Molly Dwyer and Stephanie Nader
Award: $731

The College and Career Readiness Project is designed to prepare 8th grade students to pursue any post-secondary choice they desire. In collaboration with teachers, counselors and parents, students identify their strengths, set and monitor academic and personal goals, and research college life and career options, through both classroom lessons and experiential activities, including a college visit and career fair tailored to the needs and interests of the student population.

Arts for Learning (A4L) Lessons
School: Aloha-Huber K-8
Recipient: Rebecca Carney, Jon Bridges
Award: $294

Arts for Learning (A4L) integrates standards-focused, text-based content and arts strategies to improve students’ achievement in literacy, learning and life skills. Grant funding will be used to fund two Arts for Learning units, with an artist in residence for students in grades 3-5.

Ballpoint: Writing for Publication
School: Arts and Communication Magnet Academy
Recipient: Amy Fanning
Award: $500

This project will give writing students the opportunity to publish their work in a professional anthology through Amazon’s self-publishing program. Students will experience the numerous revisions required for authentic, real-world publication. The publication will honor their work as artists, and will fuel their passion for honing their craft. Each author will receive a copy of Ballpoint literary journal.
**Arts for Learning (A4L) Lessons**  
School: Barnes Elementary  
Recipient: Rebecca Carney, Jon Bridges  
Award: $294

Arts for Learning (A4L) integrates standards-focused, text-based content and arts strategies to improve students’ achievement in literacy, learning and life skills. Grant funding will be used to fund two Arts for Learning units, with an artist in residence for students in grades 3-5.

**Boys and Girls State Event**  
School: Beaverton High  
Recipient: Bonnie Heaton  
Award: $1,000  
*Funding provided through the Baron/Gilbert Fund of the Oregon Community Foundation*

Boys/Girls State is designed to increase knowledge and awareness of high school students concerning the governmental processes and procedures at the City, County and State levels. Students will be able to attend this one-week, hands-on experience with role-playing and active participation as the primary mode of learning. Activities include taking the bar exam, participating in seminars and workshops, holding elections, participating in political party rallies, problem solving, drafting and enacting legislation, and conducting mock trials.

**Music for Movement**  
School: Beaverton District Special Education Motor Development Team  
Recipient: Pat Carley, Stephanie Gacinya, Greg Lukshaitis, Chris Siebert, Monica Simon, Pam Watson, Sarah Watters  
Award: $996

This project will assist the Special Education Adapted Physical Education teachers improve the ability to use music as a teaching tool, by providing them with portable music players. Music is motivating and the rhythm helps students perform with better coordination. Music is used to indicate an activity, a dance, and how much effort to demonstrate. The teachers have found that music helps students focus and participate in an adapted PE class, while promoting the opportunity to learn new gross motor and listening skills.
**Family Engineering Night**  
School: Bethany and Chehalem Elementary Schools  
Recipient: Celeste Darling and Erika Hansen  
Award: $800  
*Funding made possible through the BEF Building STEAM 4 All Program*

The “Family Engineering Night” provides children, parents and community members a unique opportunity to learn about the new elementary Next Generation Science Standards through fifteen engineering challenge stations, designed to activate curiosity and higher order thinking. Each participant will take home a family engineering challenge to try at home.

**Tchoukball Kid’s Activity Game**  
School: Bonny Slope Elementary  
Recipient: Cheryl Wardell  
Award: $1,000

This is a pilot project to bring Tchoukball to Beaverton Schools. The game sets can be shared by 2-4 elementary schools. The game allows students to get moving physically, compete, strategize, problem solve and work closely with teammates. It significantly helps students work on communication skills.

**Arts for Learning (A4L) Lessons**  
School: Bonny Slope Elementary  
Recipient: Rebecca Carney, Jon Bridges  
Award: $294

Arts for Learning (A4L) integrates standards-focused, text-based content and arts strategies to improve students’ achievement in literacy, learning and life skills. Grant funding will be used to fund two Arts for Learning units, with an artist in residence for students in grades 3-5.

**North Plains Field Trip for Community/Narrative Unit**  
School: Cedar Mill Elementary  
Recipient: Megan McCoy, Tara Fallon  
Award: $500

Second grade standards include narrative writing and the study of community. Students compare different communities during the present time and historically. Grant funds will provide a field trip tour of the rural community North Plains. The knowledge students will gain about community and economics will come to life in the real world as a shared experience, and will be used by students to write standard meeting narratives.
**Arts for Learning (A4L) Lessons**  
School: Cedar Mill Elementary  
Recipient: Rebecca Carney, Jon Bridges  
Award: $294

Arts for Learning (A4L) integrates standards-focused, text-based content and arts strategies to improve students’ achievement in literacy, learning and life skills. Grant funding will be used to fund two Arts for Learning units, with an artist in residence for students in grades 3-5.

**The Cedar Dreamer – Literary Journal of Student Writing and Artwork**  
School: Cedar Park Middle  
Recipient: Kristen McMurtry  
Award: $1,000

The Cedar Dreamer, a student-created, professionally published journal of student writing and artwork, strives to honor and celebrate the voices of all students, by providing them with a meaningful audience with whom they can share their stories.

**Go Girl – All Girl Soccer Tournament**  
School: Cedar Park, Five Oaks, Health & Sciences, Meadow Park and Whitford Middle Schools  
Recipient: Andrew Witt, Malindi Zimmer  
Award: $1,332.00  
*Funding provided through the Nike Employee Grant Fund of the Oregon Community Foundation*

Supports wellness and physical activities, designed to increase self-esteem and communication skills. Grant funds provided for a multi-school, all girl soccer tournament.

**Math Camp: A Student-Centered Approach to Learning**  
School: Chehalem Elementary  
Recipient: Erika Hansen, Beate Pryor and Debbie Nicolai  
Award: $750  
*Grant made possible with donations from Providence, Whole Foods, PCC-Rock Creek and Orthopedic & Fracture Clinic*

Math Camp will serve as a three-day event offering students’ mathematics instruction designed with their interests in mind, using natural entry points for application of mathematical concepts and practices. An authentic student-centered approach to learning will provide students with purpose.
**Birdhouse Bookcase**  
School: Chehalem Elementary  
Recipient: Tamara Eaton  
Award: $1,000

The Birdhouse Bookcase project is similar to little free libraries that have been popping up all over the world. Funding will be used to purchase materials to build the Birdhouse Bookcase and the books to start the book sharing project. Students will be able to bring in used books to trade for books in the book case. It is a “give one, get one” concept that will enable all students, kindergarten through 5th grade, to have an ongoing rotation of personal books in their home throughout the year. The Birdhouse Bookcase will be available in the school during school days, and will be placed in front of the building during holiday and summer breaks.

**More Active Girls**  
School: Chehalem Elementary  
Recipient: Chris Sonnichsen  
Award: $1,300  
*Funding provided through the Nike Employee Grant Fund of the Oregon Community Foundation*

Supports wellness and physical activities, designed to increase self-esteem and communication skills for female students in the Aloha area.

**Cooper Mountain CougarCast Podcasting Studio**  
School: Cooper Mountain Elementary  
Recipient: Jeff Lewis  
Award: $989  
*Funding provided through the Dave Gettling Technology Fund*

Technology will be purchased to make it possible for students to produce a series of weekly podcasts that present information relevant to both the Cooper Mountain community and to listeners alike. Producing the podcast episodes will help students develop their skills in literacy, research, reading, writing, speaking and listening. Students will be integrating technology into their learning as they share their learning with parents, other students, teachers and the community, who are all able to tune in to the podcasts.
Let’s Count to 100 by One
School: Cooper Mountain Elementary
Recipient: Wendy Courogen
Award: $896
Funding provided through the BEF Building STEAM 4 All Program

By using the iPad Air (2), in conjunction with the app “Hands-on Math Hundreds Chart”, Kindergarten students will learn how to practice counting to 100 by ones. The iPad will allow students to be mobile, self-directed, and independent in their learning and practice.

Student-Led Garden Construction and Implementation
School: Deer Park Academy
Recipient: Matthew Ballard Strauhal and Heidi Hamilton
Award: $700
Funding provided through the Spirit of New Seasons Market Award Program

Garden beds at Deer Park Academy will be created, constructed, planted and harvested by students, specifically students enrolled in the Horticulture class. The project will include building three raised garden beds, as well as reviving an existing greenhouse, which will be used to grow food year-round. The final part of the project will be to create a sustainability program at the school, with the goal of becoming waste-free, through composting, reducing, reusing, upcycling and recycling.

iPads for Physical Education Learning
School: Elmonica Elementary
Recipient: Grant Finney
Award: $957
Funding provided through the BEF Building STEAM 4 All Program

Students will use iPads to video, and then self-correct technique on multiple fitness, coordination, and motor skills activities. The iPads will also be used by students to self-assess their performance on activities, and identify areas of strength and weakness in accordance with grade level learning targets. Assessment, whether by the students, or instructor will be more direct and tangible through the use of the iPads for quick and easy quizzes regarding fitness, game and skill concepts.

Learning to Love Music through Keyboards
School: Elmonica Elementary
Recipient: Trevor Bateman
Award: $1,000

Grant funds will make it possible to add piano keyboarding to the school Arts/Physical Activity Program, Keyboards will be used to teach 4th and 5th graders, who’s families are not able to afford it, how to play the piano. The equipment’s use will extend to the rest of the 3rd – 5th grade by incorporating the use of the keyboards into lessons about reading music, and creating music.
Arts for Learning (A4L) Lessons
School: Elmonica Elementary
Recipient: Rebecca Carney, Jon Bridges
Award: $294

Arts for Learning (A4L) integrates standards-focused, text-based content and arts strategies to improve students’ achievement in literacy, learning and life skills. Grant funding will be used to fund two Arts for Learning units, with an artist in residence for students in grades 3-5.

North Plains Field Trip for Community Narrative Unit
School: Elmonica Elementary
Recipient: Jessican Strong, Mary Towell, Lynne Bayles, Kerri Swygard, and Stacey Schreiber
Award: $500

Second grade standards include narrative writing and the study of community. Students compare different communities during the present time and historically. Grant funds will provide a field trip tour of the rural community North Plains. The knowledge students will gain about community and economics will come to life in the real world as a shared experience, and will be used by students to write standard meeting narratives.

More Active Girls
School: Errol Hassell Elementary
Recipient: Jennifer Lindell
Award: $500

Funding provided through the Nike Employee Grant Fund of the Oregon Community Foundation

Supports wellness and physical activities, designed to increase self-esteem and communication skills, for female students in the Aloha area.

Arts for Learning (A4L) Lessons
School: Errol Hassell Elementary
Recipient: Rebecca Carney, Jon Bridges
Award: $294

Arts for Learning (A4L) integrates standards-focused, text-based content and arts strategies to improve students’ achievement in literacy, learning and life skills. Grant funding will be used to fund two Arts for Learning units, with an artist in residence for students in grades 3-5.
GoBoy Athletic Club  
School: Errol Hassell Elementary  
Recipient: Scarlet Valentine, Linda Nezbeda  
Award: $500  
*Funding provided through the Nike Employee Grant Fund of the Oregon Community Foundation*

GoBoy Athletic Club supports activity and wellness activities for male students. The program is designed to take the most competitive sports and activities – basketball, soccer, wall ball, flag football, etc., and put a spin on that activity that encourages teamwork, communication and sportsmanship.

**Experiencing Action through Historical Fiction**  
School: Findley Elementary  
Recipient: Amber McLandrich, Emily Pogue, Terri Buckley  
Award: $600

Through historical fiction students will be transported to the past in order to learn important life lessons for the present and future. Students will be learning about social activism during a regular school unit, with the central idea: “People express their perspectives through the action they take”. Students will be reading articles about present day people taking action. This project will let them “live through it” by engaging in several book clubs with both historical picture books and chapter books. The goal is to have students connect people who took action in the past to their lives today and inspire them to engage in their own social activism.

**Kids Moving at Greenway**  
School: Greenway Elementary  
Recipient: Renee Caballero  
Award: $1,000  
*Funding provided through the Nike Employee Grant Fund of the Oregon Community Foundation*

Kindergarten through fifth grade students will have the opportunity to participate in Play Fit Fun Kids Action Classes after-school. The program is designed to get kids moving. Physically, mentally and socially – the program helps children build healthy life habits.

**Arts for Learning (A4L) Lessons**  
School: Greenway Elementary  
Recipient: Rebecca Carney, Jon Bridges  
Award: $294

Arts for Learning (A4L) integrates standards-focused, text-based content and arts strategies to improve students’ achievement in literacy, learning and life skills. Grant funding will be used to fund two Arts for Learning units, with an artist in residence for students in grades 3-5.
**Manipulatives for Independent Practice**  
School: Hazeldale Elementary  
Recipient: Jennifer DeMartino, Rachel Onishi  
Award: $1,000

High quality games and manipulatives will be purchased to give students the extra help and support they need in the areas of alphabet and number recognition, and pre-reading skills. The games are highly engaging and will keep students on task and focused while the teacher is working with small groups, until their group is called.

**Girls on the Run**  
School: Hazeldale Elementary  
Recipient: Angela Tran  
Award: $1,400  
*Funding provided through the Nike Employee Grant Fund of the Oregon Community Foundation*

Supports wellness and physical activities, designed to increase self-esteem and communication skills, for female students in the Aloha area.

**Arts for Learning (A4L) Lessons**  
School: Hazeldale Elementary  
Recipient: Rebecca Carney, Jon Bridges  
Award: $294

Arts for Learning (A4L) integrates standards-focused, text-based content and arts strategies to improve students’ achievement in literacy, learning and life skills. Grant funding will be used to fund two Arts for Learning units, with an artist in residence for students in grades 3-5.

**Sprains, Strains and Fractures: An Introduction to Health Care**  
School: Health and Science High School  
Recipient: Jeff Crapper  
Award: $1,000  
*Funding provided through the BEF Building STEAM 4 All Program*

Grant funds will be used to purchase power drills, basic tool kits and safety glasses for this project that uses the instruction of orthopedic surgery techniques to teach applied kinesiology, human anatomy, and basic mechanical engineering skills. Students will have the opportunity to consider entering bioengineering and various other health care fields through this project.
**Thermodynamics and Renewable Insulation**  
School: Health and Science High School  
Recipient: Sean Morrison  
Award: $966  
*Funding provided through the BEF Building STEAM 4 All Program*

This project is designed to provide students with an opportunity to investigate thermo energy and alternative energy applications. Students will explore and gain experiences relating to solar hydrogen systems and thermo energy transfer through materials. Students will design, construct and test recyclable insulation materials, test and apply the relationship between R-values and recyclable insulation and complete calculations for conduction, R-values and radiation.

**Engineering a Window to Art**  
School: Highland Park Middle  
Recipient: Kate England  
Award: $977  
*Funding provided through the BEF Building STEAM 4 All Program*

Designing art begins with good engineering, especially when multiple groups will create several pieces that will be cohesive when mounted together. This design and engineering project will include peer mentoring. Special Education students will be matched with a peer mentor, who will model age appropriate communication and social skills, form friendships and provide peer guidance in following instructions. Together these students will design and create mosaic collages that will be hung in the school library.

**Tchoukball Kid’s Activity Game**  
School: Hiteon Elementary  
Recipient: Sarah Hamilton  
Award: $1,000

This is a pilot project to bring Tchoukball to Beaverton Schools. The game sets can be shared by 2-4 elementary schools. The game allows students to get moving physically, compete, strategize, problem solve and work closely with teammates. It significantly helps students work on communication skills.
**Arts for Learning (A4L) Lessons**  
School: Hiteon Elementary  
Recipient: Rebecca Carney, Jon Bridges  
Award: $294

Arts for Learning (A4L) integrates standards-focused, text-based content and arts strategies to improve students’ achievement in literacy, learning and life skills. Grant funding will be used to fund two Arts for Learning units, with an artist in residence for students in grades 3-5.

**Arts for Learning (A4L) Lessons**  
School: Jacob Wismer Elementary  
Recipient: Rebecca Carney, Jon Bridges  
Award: $294

Arts for Learning (A4L) integrates standards-focused, text-based content and arts strategies to improve students’ achievement in literacy, learning and life skills. Grant funding will be used to fund two Arts for Learning units, with an artist in residence for students in grades 3-5.

**More Active Girls – Aloha Area**  
School: Kinnaman Elementary  
Recipient: Danielle Scribner, Kara Jackson  
Award: $907.72

*Funding provided through the Nike Employee Grant Fund of the Oregon Community Foundation*

Supports wellness and physical activities, designed to increase self-esteem and communication skills, for female students in the Aloha area.

**More Active Girls – Go Girl Go!**  
School: McKay Elementary  
Recipient: Megan Clifford  
Award: $584

*Funding provided through the Nike Employee Fund of the Oregon Community Foundation*

Supports wellness and physical activities, designed to increase self-esteem and communication skills, for female students in the Aloha area.
iLearn with iPads  
School: McKay Elementary  
Recipient: Erin Dec  
Award: $1,000

Grant funds will be used to purchase iPad Minis for special education students to use in the Resource Room to practice skills taught by the specialists. Increased practice, using a highly motivating device like the iPad, will help students achieve better outcomes in academics, speech, language, and social communication.

Learning through Games  
School: McKinley Elementary  
Recipient: Debbie Abel and Chris Gilbertson  
Award: $750

Children who are English Language Learners (ELL) and children from low income families will have the opportunity to learn how to play classic board games, from around the world, in this after-school club. Students will be able to check out games to take home and share with their families. Playing these kinds of games will increase the student’s vocabulary and provide social experiences that they may not otherwise have.

Pianos for All  
School: McKinley Elementary  
Recipient: Laurel Crafton and Jennifer Singleton  
Award: $1,000

Grant funds will provide the piano keyboards needed to continue a before and after-school program for 4th and 5th grade students who are not able to afford piano lessons. The use of the keyboards will also be extended to all 4th and 5th grade classes as the use of keyboards is incorporated into lessons about reading music and creating music.

Arduinos and Art  
School: Meadow Park Middle School  
Recipient: Tiffany Tran-Parta, Lelainya Guzman  
Award: $1,000  
Funding provided through the BEF Building STEAM 4 All Program

Students will learn and apply the engineering design process to design, build and test prototypes of a lighting system using Arduinos Uno microcontroller. They will be able to use this lighting system to illuminate lanterns created in art classes in order to highlight the variety of lanterns from various countries in the world. This project will expose students to the basics of electronics and programming as they make a series of circuits that will light different colors of LED’s synchronized to different frequencies of music.
The Collective Video Project
School: Meadow Park Middle
Recipient: Tymon Emch, Kristen McCartney, Barbara Page
Award: $495
Funding provided through the BEF Building STEAM 4 All program

Grant funds will be used to purchase a GoPro video camera which will allow students to explore new technologies in the creation of videos. The goal is to capture and create quality videos that revolve around the work and lives of the Meadow Park community.

College and Career Ready
School: Meadow Park Middle School
Recipient: Rona Narkis
Award: $1,000

College and Career Ready will provide English Language Learners the opportunity to research careers of interest to them. Students will utilize tablets to conduct the initial research. Students will then create Keynote presentations to showcase the careers they have chosen. Using the tablets, students will create iMovie trailers on a specific career to present to their peers.

Understanding Ourselves through Literature: An Author Study with Angela Johnson
School: Merlo Station Community School
Recipient: Leigh Morlock
Award: $1,000

Students will read Angela Jonson’s Heaven trilogy in order to explore the major themes of her work and to discover themselves within the pages of these engaging, powerful texts. They will apply what they learn in a culminating, author-led workshop. The students will each get to keep an autographed copy of Ms. Johnson’s book, signed especially for them.

Learning through the Garden
School: Montclair Elementary
Recipient: Amy Grey, Colleen Kellogg, Amanda Kellogg, Amanda Elliott
Award: $1,000
Funding provided through the BEF Building STEAM 4 All Program

The goal of the project is to create a garden in an open area at the school to use to teach students about multiple subjects through the use of this interactive space. The garden will allow for the integration of a number of academic subjects. Students will use math and map skills to measure and plan the layout of the garden. They will understand how to budget and the labor that goes into taking care of a garden.
Students will be reading, writing and doing research surrounding the plants and life that the garden will encompass.

**Arts for Learning (A4L) Lessons**
School: Montclair Elementary  
Recipient: Rebecca Carney, Jon Bridges  
Award: $294

Arts for Learning (A4L) integrates standards-focused, text-based content and arts strategies to improve students’ achievement in literacy, learning and life skills. Grant funding will be used to fund two Arts for Learning units, with an artist in residence for students in grades 3-5.

**Go Girls Go**
School: Mountain View Middle School  
Recipient: Claudia Ruf  
Award: $825

*Funding provided through the Nike Employee Grant Fund of the Oregon Community Foundation*

Supports wellness and physical activities, designed to increase self-esteem and communication skills, for female students in the Aloha area.

**Girl Power Summit**
School: Mountain View Middle School  
Recipient: Claudia Ruf  
Award: $1,000

*Funding provided through the Nike Employee Grant Fund of the Oregon Community Foundation*

Supports wellness and physical activities, designed to increase self-esteem and communication skills, for female students in the Aloha area.

**ALEKS Math**
School: Nancy Ryles Elementary  
Recipient: Bridget Peterson, Megan Strickland, Chelsea Putnam, Kristi Miller  
Award: $1,000

*Funding provided through the Dave Gettling Technology Fund*

Grant funds will make it possible for students to access the web-based ALEKS (Assessment and Learning in Knowledge Spaces). ALEKS uses adaptive questioning in order to determine exactly what a student knows and doesn’t know in math. The system will then instruct the student on topics that he/she is most ready to learn. As the student works through the topics, ALEKS periodically reassesses the student to make sure that the content has been retained. The questions are not multiple choice and students must show their work.
**Minis for Minnieweather**  
School: Nancy Ryles Elementary  
Recipient: Tami Lea Minnieweather  
Award: $1,000  
*Funding provided through the Dave Gettling Technology Fund*

This project will integrate technology in the classroom with iPad Minis. All students will be given the opportunity to use an iPad daily to support grade level Common Core standards that require students use a variety of digital tools.

**Daily 4 Math: Coding**  
School: Oak Hills Elementary  
Recipient: Rylan Lester  
Award: $900  
*Funding provided through the BEF Building STEAM 4 All Program*

Grant funding will provide updated technology, allowing students access to online coding resources. The project will mesh together daily coding practices with the daily 3 math protocols. Students will be better prepared for opportunities in the high tech fields as they go on to college and careers.

**Arts for Learning (A4L) Lessons**  
School: Oak Hills Elementary  
Recipient: Rebecca Carney, Jon Bridges  
Award: $294

Arts for Learning (A4L) integrates standards-focused, text-based content and arts strategies to improve students’ achievement in literacy, learning and life skills. Grant funding will be used to fund two Arts for Learning units, with an artist in residence for students in grades 3-5.

**Arts for Learning (A4L) Lessons**  
School: Raleigh Hills Elementary  
Recipient: Rebecca Carney, Jon Bridges  
Award: $294

Arts for Learning (A4L) integrates standards-focused, text-based content and arts strategies to improve students’ achievement in literacy, learning and life skills. Grant funding will be used to fund two Arts for Learning units, with an artist in residence for students in grades 3-5.
Arts for Learning (A4L) Lessons  
School: Scholls Heights Elementary  
Recipient: Rebecca Carney, Jon Bridges  
Award: $294  

Arts for Learning (A4L) integrates standards-focused, text-based content and arts strategies to improve students’ achievement in literacy, learning and life skills. Grant funding will be used to fund two Arts for Learning units, with an artist in residence for students in grades 3-5.

Arts for Learning (A4L) Lessons  
School: Sexton Mountain Elementary  
Recipient: Rebecca Carney, Jon Bridges  
Award: $294  

Arts for Learning (A4L) integrates standards-focused, text-based content and arts strategies to improve students’ achievement in literacy, learning and life skills. Grant funding will be used to fund two Arts for Learning units, with an artist in residence for students in grades 3-5.

The Tillamook Forest Ecosystems through Art and Science  
School: Springville K-8  
Recipient: Dan Shedden, Penny Partick  
Award: $990  
Funding provided through the Mike Osborne Memorial Fund  

Students will create a resource about common animals and plants of the Tillamook Forest ecosystem, as currently there is no resource. The project will incorporate art, poetry and informational writing. When the project is completed the resource will be made available online and in a format to be used by visitors to the Tillamook Forest Center.

More Active Girls  
School: Springville K-8  
Recipient: Kellie Rice  
Award: $1,300  
Funding provided through the Nike Employee Grant Fund of the Oregon Community Fund  

Supports wellness and physical activities, designed to increase female students self-esteem and communication skills.
**The Publishing Journey: Empowering Creative Student Voices**
School: Sunset High  
Recipient: Christopher Marshall  
Award: $1,000

Grant funds will be used to continue this highly successful and popular project for a new group of creative writing students. The process of sharing the work is pivotal to the world of creative writing. Through this project, Creative Writing students will be challenged to take this step. Through collaboration with the Independent Publishing Resource Center (IPRC.org), and their peers in the Graphic Design program, students will emerge at the end of the semester as self-published authors, releasing their work in the form of a hardbound book.

**Circuits and Wearable Technology**
School: Sunset High  
Recipient: Catherine Geer  
Award: $1,000

*Funding provided through the BEF Building STEAM 4 All Program*

This hands-on project will give students in the Exploring Technology class the opportunity to create wearable circuits. The class seeks to introduce exciting technology topics to student populations that are typically underrepresented in STEM classes, including female students. Grant funds will be used to purchase materials to teach circuitry to the class, as well as the supplies needed to manufacture unique wearable circuits that are programmable, light up, and even make sounds.
**Terra Nova Aquaponics**  
School: Terra Nova Farm School  
Recipient: Justin Strom  
$1,000  
*Funding provided through the BEF Building STEAM 4 All Program*  

This project will take place during the winter when the growing season is typically over. Students will have the opportunity to design an Aquaponics station. The system utilizes fish waste as a plant fertilizer in a closed system. This will allow students to explore engineering and two biology standards, which can be applied to the farm when the growing season begins. Students will manipulate the inputs (light, number of fish, fish food, temperature), while measuring outputs (plant growth, nutrient levels, pH, water clarity).

**Growing Plants Hydroponically: For Food and Oil Extraction**  
School: Terra Nova Farm School  
Recipient: Justin Strom  
Award: $1,000  
*Funding provided through the Spirit of New Seasons Market Awards Program*  

Students will learn how to grow plants indoors by optimizing a purchased hydroponic growing system. Students will use these plants as specimens in their biology course and as food in the paired sustainable foods course. Students will increase the capacity of the hydroponic system by reverse engineering and building additional systems. In addition, students will learn how to efficiently extract plant oils using a novel device in the microwave. They will then use the extracted oils for creating value-added products for scientific research on natural insect control and for studying the effect of oils on insect behavior.

**Arts for Learning (A4L) Lessons**  
School: Vose Elementary  
Recipient: Rebecca Carney, Jon Bridges  
Award: $294  

Arts for Learning (A4L) integrates standards-focused, text-based content and arts strategies to improve students’ achievement in literacy, learning and life skills. Grant funding will be used to fund two Arts for Learning units, with an artist in residence for students in grades 3-5.
Arts for Learning (A4L) Lessons
School: West TV Elementary
Recipient: Rebecca Carney, Jon Bridges
Award: $294

Arts for Learning (A4L) integrates standards-focused, text-based content and arts strategies to improve students’ achievement in literacy, learning and life skills. Grant funding will be used to fund two Arts for Learning units, with an artist in residence for students in grades 3-5.

At-Risk Girls Activities and Wellness
School: Whitford Middle
Recipient: Aaron Persons and Malindi Zimmer
Award: $933
Funding Provided through the Nike Employee Grant Fund of the Oregon Community Foundation

Supports activity and wellness activities for at-risk females in our low-income schools.

With thanks to our generous donors, including the Dave Gettling Technology Fund, The Spirit of New Seasons Market Awards, Nike Employee Grant Fund of the Oregon Community Foundation, the Baron/Gilbert Fund of the Oregon Community Foundation, and the BEF Building STEAM 4 All Program, the Beaverton Education Foundation was able to award $6,100, funding 6 projects this month. BEF awarded $51,578.94, funding 67 classroom projects in the 2014-2015 academic year. BEF Classroom Innovation Grants are awarded monthly.