

# Intel NWSE State High School Special Awards - Press Report

Special awards are sponsored by a variety of organizations. The prizes are determined by the sponsors and range from certificates to large sums of cash.

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## State HS Special Awards

<i>Title</i>	<i>Sponsor</i>	<i>Student(s)</i>	<i>School</i>	<i>Project Title</i>
Army Outstanding High School Project in Environmental Science <i>Description:</i> Certificate and Savings bond (\$50)	Army Research Office, U.S. Army	Mike Olson	Gold Beach High School	(HS-EV-094) Wildfire Affected Soils and Rhizosphere Recovery
Army Outstanding High School Project in Life Sciences <i>Description:</i> Certificate and Savings bond (\$50)	Army Research Office, U.S. Army	Allison Rhines	Oregon Episcopal Upper School	(HS-MI-028) A Comparative Study of the Effectiveness of Anti-Microbial Agents in Reducing Oral Biofilms
Army Outstanding High School Project in Mathematics/Computer Science <i>Description:</i> Certificate and Saving bond (\$50)	Army Research Office, U.S. Army	Solly Reisberg	Oregon Episcopal Upper School	(HS-CO-004) Computer Simulation as a Tool for Evaluating the Relationship Between Driving Habits and Automobile Exhaust Pollution
Creative Use of Technology for Data Collection <i>Description:</i> TI-83 Plus calculator	Texas Instruments	Brandon Lei	Oregon Episcopal Upper School	(HS-CH-003) Do Fresher Fruits Reap in More Antioxidants?
Excellence in Statistics <i>Description:</i> Two \$75 awards and one \$50 award	American Statistical Association	Alyssa Grant	CREST (West Linn-Wilsonville Projects)	(HS-MA-005) Investing in stocks by random, technical, and fundamental selection
Excellence in Statistics <i>Description:</i> Two \$75 awards and one \$50 award	American Statistical Association	Allison Landstrom	Southridge High School	(HS-ME-055) The Effects of the Relaxin Hormone on the Laxity of Male and Female Anterior Cruciate Ligament Tissue, In Vitro
Innovative Engineering Award <i>Description:</i> Award packet w/ poster, pin, certificate and subscription to Engineering Times	National Society of Professional Engineers	Ryna Karnik	Oregon Episcopal Upper School	(HS-EG-044) A Non-Photolithographic Approach to the Construction of N-Type MOSFET Devices Using FIB Technology
Julie Becker Award <i>Description:</i> \$1000, certificate, book, and biography of Julie Becker	YES!	Tim Titus	Gold Beach High School	(HS-PH-124) The Effect of Wood Submersion Treatments on its Acoustic Properties

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Most Effective Use of Photography	Eastman Kodak Company	Brandon Lei	Oregon Episcopal Upper School	(HS-CH-003) Do Fresher Fruits Reap in More Antioxidants?
<i>Description:</i> Certificate, Photo Kit to student & teacher				
Most Effective Use of Photography	Eastman Kodak Company	Kyle Kingsbury	Merlo Station High School	(HS-CO-011) Two Systems for Digital Content Management and Presentation
<i>Description:</i> Certificate, Photo Kit to student & teacher				
Naval Excellence in Science and Engineering Award	Office of Naval Research, US Navy and Marine Corps	Monica Scheer	Oregon Episcopal Upper School	(HS-EG-042) Building a Nanotube Apparatus
<i>Description:</i> Certificate and gift certificate				
Naval Excellence in Science and Engineering Award	Office of Naval Research, US Navy and Marine Corps	Phil Muñoz, Christopher Verlinden	Merlo Station High School	(HS-EG-070) Increased Channel Capacity in Fiber Optics Through Transmission of Multiplexed Orbital Angular Momentum States
<i>Description:</i> Certificate and gift certificate				
Naval Excellence in Science and Engineering Award	Office of Naval Research, US Navy and Marine Corps	Oliver Johnson	West Salem High School	(HS-EG-058) Energy utilization in autonomous underwater reserach vehicles using a solar power system for continuous operation.
<i>Description:</i> Certificate and gift certificate				
OSU College of Engineering Scholarship	OSU College of Engineering	NamKy Nguyen	Lakeview High School	(HS-EG-074) Juniper Fractals
<i>Description:</i> \$3000, renewable for three more years				
OSU College of Engineering Scholarship	OSU College of Engineering	Oliver Johnson	West Salem High School	(HS-EG-058) Energy utilization in autonomous underwater reserach vehicles using a solar power system for continuous operation.
<i>Description:</i> \$3000, renewable for three more years				
OSU College of Engineering Scholarship	OSU College of Engineering	Kathryn King	West Salem High School	(HS-EG-059) Energy Efficiency and Construction of Windows
<i>Description:</i> \$3000, renewable for three more years				
OSU College of Science Scholarship	OSU College of Science	Allison Blackwell	Gold Beach High School	(HS-BO-050) Influence of Leaf Characteristics on 'Sudden Oak Death' Susceptibility
<i>Description:</i> \$3000 scholarship, renewable for three more years				
Outstanding Air Quality Project	Southwest Clean Air Agency	Suraj Yalamuri	Westview High School	(HS-EV-062) Greenhouse Gases - Effect on Global Temperature Trends
<i>Description:</i> Plaque				

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Outstanding Applied or Practical Chemistry Project by a Junior or Senior  <i>Description:</i> \$200, certificate	Portland Industrial Chemists' Association/American Chemical Society	Ryna Karnik	Oregon Episcopal Upper School	(HS-EG-044) A Non-Photolithographic Approach to the Construction of N-Type MOSFET Devices Using FIB Technology
Outstanding Aquatic Related Environmental Science Project  <i>Description:</i> \$50	Lake Oswego Corporation	Lynne Adams, Christina Walitzki, Sarah Hayes	Oregon Episcopal Upper School	(HS-EV-015) Heavy Metal Contamination of Willamette River Sediment and its Historical Implications
Outstanding Chemistry Project  <i>Description:</i> \$250, certificate	American Chemical Society, Portland Section	Neil Lakin	Oregon Episcopal Upper School	(HS-CH-014) Designing & Constructing a Poly(vinyl alcohol)-Poly(acrylic acid) Artificial Muscle
Outstanding Chemistry Related Project  <i>Description:</i> \$25, book, certificate	Iota Sigma Pi	Holland MacLaurie	Gold Beach High School	(HS-BI-021) Genetic Variation in the Abies procera - Abies magnifica Complex
Outstanding Engineering Project  <i>Description:</i> Certificate and plaque	IEEE Oregon	Oliver Johnson	West Salem High School	(HS-EG-058) Energy utilization in autonomous underwater reserach vehicles using a solar power system for continuous operation.
Outstanding Geology Project  <i>Description:</i> T-shirt	Cascade Volcano Observatory	Will Taylor	Gold Beach High School	(HS-EA-024) Effectiveness of Postfire Straw Mulch Soil Erosion Treatments
Outstanding Geoscience Project  <i>Description:</i> certificate	Association Of Women Geoscientists	Elyse Hope	Oregon Episcopal Upper School	(HS-EA-002) A STUDY IN THE CORRELATION BETWEEN THE MOVEMENT RATES OF SUNSPOTS AND ACTIVE SOLAR MAGNETIC REGIONS USING A NOVEL MEASUREMENT METHOD
Outstanding Project by an 11th Grade Student  <i>Description:</i> Certificate	Yale University Science and Engineering Association	Oliver Johnson	West Salem High School	(HS-EG-058) Energy utilization in autonomous underwater reserach vehicles using a solar power system for continuous operation.
Outstanding Project in Materials Science  <i>Description:</i> certificate	ASM International Foundation	Neil Lakin	Oregon Episcopal Upper School	(HS-CH-014) Designing & Constructing a Poly(vinyl alcohol)-Poly(acrylic acid) Artificial Muscle

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Outstanding Project in Meteorology, Oceanic or Atmospheric Sciences  <i>Description:</i> certificate	American Meteorological Society	Suraj Yalamuri	Westview High School	(HS-EV-062) Greenhouse Gases - Effect on Global Temperature Trends
Outstanding Project in Meteorology, Oceanic or Atmospheric Sciences  <i>Description:</i> certificate	American Meteorological Society	Agatha Brzezinski	CREST (West Linn-Wilsonville Projects)	(HS-EV-068) Water Quality Between an Urban Intermittent Stream & an Urban Year Round Stream
Outstanding Project in Meteorology, Oceanic or Atmospheric Sciences  <i>Description:</i> certificate	American Meteorological Society	Seth Wickremarachchi	Liberty High School	(HS-EA-025) The study of water levels, at Jackson Bottom Wetlands in Hillsboro, to correlate with rainfall data and identify any other dependencies.
Outstanding Project in Optical Science and Engineering  <i>Description:</i> Certificate	SPIE-The International Society for Optical Engineering	Allison Solanki	Glencoe High School	(HS-PH-132) Catalytic growth and characterization of ZnO nanowires and nanobelts
Outstanding Project in Optical Science and Engineering  <i>Description:</i> Certificate	SPIE-The International Society for Optical Engineering	Michael Coulter	Oregon Episcopal Upper School	(HS-PH-106) A Novel Growth Method For Silicon Oxide Nanowires
Outstanding Project in Plant Biology  <i>Description:</i> \$50 and certificate	OSU Department of Botany and Plant Pathology	Akhil Srinivasan	Oregon Episcopal Upper School	(HS-BO-019) Optimum Area for Leaf Tissue Cultures
Outstanding Project in Power Engineering  <i>Description:</i> Certificate and plaque	IEEE Oregon Power Society	Oliver Johnson	West Salem High School	(HS-EG-058) Energy utilization in autonomous underwater reserach vehicles using a solar power system for continuous operation.
Outstanding Project in Surface Physics or Microelectronics  <i>Description:</i> \$150	American Vacuum Society, NW section	Ryna Karnik	Oregon Episcopal Upper School	(HS-EG-044) A Non-Photolithographic Approach to the Construction of N-Type MOSFET Devices Using FIB Technology
Outstanding Project in the Environmental Sciences Emphasizing Solutions  <i>Description:</i> \$50	Environmental Education Association of Oregon	Ashton Wesner	CREST (West Linn-Wilsonville Projects)	(HS-EV-073) Fertilizer Run-off and Crop Yield Evaluation

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Outstanding Project in Vehicular Technology	IEEE Oregon	Oliver Johnson	West Salem High School	(HS-EG-058) Energy utilization in autonomous underwater reserach vehicles using a solar power system for continuous operation.
<i>Description:</i> Certificate and plaque				
Outstanding Project Influencing Corrosion Awareness/Control	NACE International	Whitney Clark	Southridge High School	(HS-CH-047) Which One Wins the Gold?
<i>Description:</i> Certificate				
Outstanding Research in Psychology	American Psychological Association and Teachers of Psychology in Secondary Schools	Joseph Gooch	South Salem High School	(HS-BE-069) Changes in Witness Confidence Following Verbal Feedback
<i>Description:</i> Certificate				
Outstanding Science Project About Forests	Pacific NW Research Station, USDA Forest Service	Mike Olson	Gold Beach High School	(HS-EV-094) Wildfire Affected Soils and Rhizosphere Recovery
<i>Description:</i> Plaque				
Outstanding Use of the International System of Units	U.S. Metric Association	Colin Platt	Oregon Episcopal Upper School	(HS-EG-001) The Effects of Temperature and Input Voltage on Noise in Avalanche Photodiodes for use in Cosmic Ray Detection: A Second Year Study
<i>Description:</i> certificate				
U.S. Regional Stockholm Junior Water Prize	Water Environment Federation	Stephanie Phillips	Oregon Episcopal Upper School	(HS-EV-016) The Protection of Alga from Commercial Herbicides by Soil
<i>Description:</i> Certificate, invitation to compete for State Stockholm Junior Water Prize				