



Oregon Robotics Tournament & Outreach Program

OREGON ROBOTICS TOURNAMENT AND OUTREACH PROGRAM

ORTOP, a FIRST® PARTNER IN OREGON AND SOUTHWEST WASHINGTON, SINCE 2001.



A FUN WAY TO GET KIDS INVOLVED IN SCIENCE, ENGINEERING, TECHNOLOGY AND MATH.

“Up until now there have been few opportunities to experience what it is like to be part of an engineering team. Participating in FIRST programs gives students just that opportunity.”*

–Bruce Schafer, Director, Industry Partnerships, Oregon University System

**For Inspiration and Recognition of Science and Technology, an international non-profit educational organization - www.usfirst.org*

 <p>Registration opens in August 2013</p> <p>6 – 9 years old</p>		 <p>Registration opens in May 2013</p> <p>9 – 14 year olds</p>		 <p>Registration opens in May 2013</p> <p>7th – 12th Grade</p>	
					
<p>Can Junior FIRST® LEGO® League teams help us master natural disasters? In the 2013 DISASTER BLASTERSM Challenge, students ages 6 to 9 will explore the awe-inspiring storms, quakes, waves and more that we call natural disasters. Teams will learn how science, technology, engineering, and math impact our everyday lives while they get excited about future innovations. Brace yourself for DISASTER BLASTER!</p> <p>Each year, Jr.FLL presents a new and exciting Challenge to ignite the inherent creativity in young children. While exploring natural disasters, teams will learn about simple machines as they build a model made of LEGO® elements with a motorized part and learn to present information through a Show Me Poster. Throughout their experience, teams will operate under Jr.FLL's signature set of Core Values. Over 100 teams in Oregon & SW Washington.</p>		<p>Can FIRST® LEGO® League teams help us master natural disasters? In the 2013 NATURE'S FURYSM Challenge, students 9 to 14 will explore the awe-inspiring storms, quakes, waves and more that we call natural disasters. Teams will discover what can be done when intense natural events meet the places people live, work, and play. Brace yourself for NATURE'S FURY!</p> <p>FLL challenges kids to think like scientists and engineers. During NATURE'S FURY teams will build, test, and program an autonomous robot using LEGO MINDSTORMS® to solve a set of missions in the Robot Game. They will also choose and solve a real-world problem in the Project. Throughout their experience, teams will operate under FLL's signature set of Core Values. Over 450 teams in Oregon & SW Washington.</p>		<p>FIRST® Tech Challenge is a robotics competition for middle and high school students based on a sports model. Teams of about 10 students are responsible for designing, building and programming their Tetrix® kit based robots enhanced with team designed and fabricated parts to compete as alliances against other teams.</p> <p>Teams advance from qualifying tournaments to the state championship tournament, before advancing to the World Championship Tournament, held each year in St. Louis, Mo. ORTOP offers FTC workshops and scrimmages for team members, coaches and mentor100 teams in Oregon & SW Washington.</p>	
<p>www.ortop.org/jfll www.usfirst.org</p>		<p>www.ortop.org/fll www.usfirst.org</p>		<p>www.ortop.org/ftc www.usfirst.org</p>	

Title Sponsor for Oregon FLL

2012/2013 ORTOP Season Sponsors

Presenting Sponsor for FLL and FTC ▶ ROCKWELL COLLINS / Presenting Sponsors for Jr.FLL ▶ OMSI and Google

Platinum ▶ Google Data Centers Grants Fund of Tides Foundation

Gold ▶ Garmin, Bonneville Power Administration, Vernier Software and Technology ,

Silver ▶ IBM, Oregon University System, Timbercon, PHTech, ONAMI

Supporting ▶ ESI, FEI, Portland Community Media, Vista Masonic Lodge#215





In 2013 over 4500 students across Oregon & SW Washington will participate.

HOW YOU CAN BE INVOLVED

- ▶ Start a team and coach or mentor.
- ▶ Encourage young people to join your team!
- ▶ Attend a free FLL or FTC Workshop for prospective coaches and mentors.
Coaches/Mentors are teachers, parents, community organization staff or volunteers.
- ▶ Apply for an FLL/FTC team scholarship if needed.
- ▶ Be a judge, referee or volunteer at a tournament!!!
- ▶ Be an ORTOP Sponsor.

More info at
www.ortop.org

- ▶ COACHES/MENTORS
- ▶ VOLUNTEERS
- ▶ SPONSORS

What Adults and Students say about FIRST® and the Oregon Robotics Tournament and Outreach Program



“The most important thing I learned today was really how to work with my teammates, that everyone’s views on something are really important and everyone’s ideas are valuable.”
– FLL Team Member

“This is what I kind of wanted to be when I grew up. So this gave me the chance to do it. And you can’t really watch engineers do what they do. You have to do it yourself.”
– FLL Team Member

FLL and FTC robotics is getting kids to think and learn in “3D”...it’s applied science, hands-on math and an amazing way to connect the classroom with real-world problem solving through teamwork. Plus, the yearly reuse of components makes this an affordable way to energize and engage students with engineering.”
– Craig Hudson, Engineer, FTC Coach and Amity School Board Member

“All of us at Intel are thrilled to be part of the exciting Oregon Robotics Tournament and Outreach Program and are honored to ...witness the brilliant work of our talented home-state students. One of the most special aspects of the ORTOP program is its effectiveness in reaching out to a broad and diverse group of kids from all regions of Oregon.”
– Nancy Cox, IT Manager, Intel Corporation

ORTOP / FIRST® Calendar

▶ Spring ◀

Free FLL/FTC workshops /Registration begins

▶ Fall ◀

Teams begin meeting for Jr.FLL, FLL & FTC

▶ December ◀

20+ FLL Qualifying tournaments in Oregon

▶ January ◀

Intel Oregon FIRST LEGO League Championship Tournament

▶ February ◀

Oregon FIRST Tech Challenge Qualifying and Championship events

▶ March ◀

Jr.FLL Expos

