



## MOTOROLA SOLUTIONS FOUNDATION

### 2017 INTERNATIONAL GRANT RECIPIENTS

*Partial Listing – additional recipients to be added as forms are finalized*

#### Global

##### **American National Red Cross**

Through the International Services and Missing Maps Program, the Red Cross can identify proper evacuation routes and information needed to prepare communities affected by disasters around the globe with better information to access communities who simply hadn't "existed" before on maps. Emergency responders and relief workers can identify routes to quickly reach disaster affected areas.

##### **International Centre for Missing & Exploited Children (ICMEC)**

ICMEC's First Responder Training on Missing Children builds a community of professionals who better understand the global and regional scope of the missing children issue; the importance of laws, policies and procedures; the basic search mechanisms; the link to child sexual exploitation; the various ways to engage the public in the search for a missing child; and how to work with media to help recover a missing child.

##### **International Fire Relief Mission, Inc. (IFRM)**

The IFRM Global Firefighter Support Initiative supports improved mission preparation and funding for IFRM missions and increases the community education and partnering model. This enables the organization to reach a larger number of community members and mobilize local partners wherever they work. These activities enable IFRM to reach an additional 200+ firefighters annually, hundreds of community members as well as increase the impact around the world.

##### **National Engineers Week Foundation dba DiscoverE**

DiscoverE's Girl Day inspires 500,000 K-12 girls a year to explore engineering. The Global Marathon engages more than 2,000 female engineers around the globe in conversations that transcend borders. The Future City Competition enables more than 40,000 middle school students who use the engineering design process to tackle challenges such as public safety and communications that Motorola Solutions engineers tackle every day.

##### **New York Academy of Sciences**

1000 Girls, 1000 Futures is a comprehensive virtual program designed to engage and inspire female high school students to study STEM fields and pursue STEM careers. It has three main

components including layered mentoring (one-to-one; one-to-many; peer-to-peer), online programming that targets soft skill development (communications, networking, leadership), and a culminating in-person event. It is open to girls around the world, and in its first two years has reached over 600 girls from 38 countries.

## Argentina

### **Fundación Junior Achievement Argentina**

Innovation Camp provides students aged 16 to 22 a full day program where participants are organized in teams and are assisted by mentors and volunteers. The participants find innovative technology solutions to a specific problem. The teams are evaluated by a jury that chooses the winning proposal. Each member of the winning team will win a scholarship to participate in the International Forum of trainers in Córdoba.

## Australia

### **Australasian Fire and Emergency Services Authorities (AFAC) Council Knowledge Event Series**

AFAC hosts public safety education events for adult frontline responders, including volunteers. The series attracts an average of 100 delegates per event. Motorola Solutions Knowledge Innovation Awards are open to all AFAC members in Australia and New Zealand and are presented during the AFAC Conference which attracts over 2000 participants.

### **Crime Stoppers Queensland Limited**

The program supports professional development for Crime Stoppers First Responders - providing valuable training for 40 contact centre personnel based in Brisbane associated with emergencies, mental health (including suicidal contacts) and coping with stress and trauma. First Aid training will be provided to 360 Volunteers to increase skills and readiness to assist the community in Queensland.

### **Crime Stoppers Victoria Limited (CSV)**

The CSV Community Safety Forums capitalize on over 30 years of experience in delivering public safety education and crime prevention campaigns. These educational workshops are designed to equip individuals with the information and tools necessary to make their homes and communities safer places. Each forum will provide guidance on how to make their homes secure, prepare for unexpected emergencies and strengthen the safety of their communities.

## Brazil

### **Associação Alpha para Educação Especial**

The project provides opportunities for young people from the Vale do Paraíba region and encourage them to pursue activities related to science and technology. This approach is accomplished through the development of robotics teaching and automation projects in public schools and contact with entities that develop technologies in the region of operation. It is expected to impact more than 5,000 students from among 15 public schools.

### **Associação Junior Achievement do Estado de São Paulo**

The project provides information on STEM careers for 225 students from public schools and/or non-profit organizations in São Paulo, Brazil, and prepares them for the job market. Students also participate in various challenge which develop competencies necessary to be successful in business.

### **Competitive Brazil Movement – MBC**

The Modernizing Public Management Program will support development and research to sector methodologies and techniques to improve technology communications throughout Brazil.

### **Fundeb - Fundação para Desenvolvimento de Bauru - Unesp**

Fundeb's Radio and Dispatcher Simulations train first responders in how to best respond and react to specific emergency situations. The program helps reduce the costs of physical radio training and to achieve the dissemination of knowledge to specific and general audiences.

## **Canada**

### **Canadian Fallen Firefighters Foundation**

The Canadian Fallen Firefighters Education Fund (CFFF) provides scholarships for children and spouses of fallen firefighters. The CFFF awards from one to six four-year scholarships annually.

### **Community Safety Knowledge Alliance, Inc. (CSKA)**

CSKA's programs provide technology-enabled community mobilization in remote communities, builds professional capacities, supports a predictive analytics lab and reintegrates high-risk violent young offenders into remote communities, thus reducing the incidence of remand for low-risk, non-violent offenders. The program builds leadership capacity and conducts program evaluation in policing in Canada.

### **ProAction Cops & Kids**

The Neighborhood Officer Program engages 17 teams of police officers with core competencies in community engagement to lead skill-building programs with 200 youth who live in communities known for violence, crime, drugs and gang activity. These programs provide a safe and fun way for officers to become accepted and involved members of these neighborhoods. Programs offer a wide range of activities to meet diverse interests and needs such as sports, arts, music and community outings.

### **Ryerson University**

The Research Opportunity Program in Engineering (ROPE) welcomes highly motivated and talented female grade 11 high school students to explore engineering at the University level. ROPE is an intensive four-week summer internship that combines theory with hands-on practical experience in cutting-edge technologies.

### **University of Fraser Valley**

The University of Fraser Valley conducts research on emerging trends in firefighter injuries, diseases and fatalities in Canada. Each year, Canadian firefighters die or are injured responding to service calls and suffer traumatic events and exposure to smoke and gases from products of combustion, resulting in industrial diseases such as cancers.

### **University of Waterloo**

The WEO Makerspace is a on campus resource used in a variety of programs aimed primarily at K-12 youth. For two months, elements of the space are taken on the road and used in rural and indigenous locations in southwestern Ontario. Programming is created and tailored to a variety of audiences and age groups as well as linked to specific curriculum topics.

### **University of Western Ontario**

Canadian Society of Evidence Based Policing (CAN-SEBP) hosts regional workshops aimed at creating spaces to share the latest policing research and innovation and discuss research successes and challenges and any topics that promote a culture of curiosity within policing organizations.

## **Chile**

### **Fundación Paz Ciudadana**

The program provides training for first responders who work in high crime areas; shares information and provides guidelines for public safety observatories at local level; conducts workshops in transferring practices and skills using actionable information for orienting the public services; and provides family-centered preventive intervention focused on adolescents to reduce aggressive behavior and repeat victimization.

## **China**

### **China Police Martyrs and Heroes Foundation**

China Police Martyrs and Heroes Foundation provides educational scholarships to 160 children of fallen police and fire officers in four provinces of western China (Sichuan, Qinghai, Xinjiang, Gansu).

## **Colombia**

### **Fundación Global Arte Ciencia y Tecnología**

The Colombian Girls for Technology Program provides the opportunity for 70 girls from Medellín to pursue higher education. Girls receive training in CAD and certifications in science, technology and entrepreneurship based on problem-based learning through robotics competitions.

### **Give To Colombia**

The Scholarship Fund for the Handicapped Soldiers of Colombia provides education and employment access for Colombian soldiers injured in combat.

## Costa Rica

### **Fundación Omar Dengo**

Programming and Robotics Clubs for Girls project educates young women ages 12 to 18 from vulnerable and at-risk communities in hands-on training in programming, robotics and 3D digital animation. The program provides one face-to-face workshop for deaf and hard-of-hearing girls and women.

## Ecuador

### **Escuela Superior Politécnica del Litoral (ESPOL)**

"Natural Disasters: Knowledge saves lives!" is a science education and risk awareness program implemented in Guayaquil and Durán. The program consists of exhibits focused on earth science and understanding natural disaster risks, consequences and safety measures as well as an educational component that will help 320 children, families, teachers and school directors.

## Egypt

### **Alsearag for Content and Innovation Services**

The Egyptian Robot Olympiad is part of The World Robot Olympiad - a global robotics competition for students aged seven to 25. The Olympiad brings people together from all over the world to develop their creativity and problem-solving skills through a challenging and educational robot competition. Students with mentors/teachers go through camps and training until they reach City Finals and National Finals. First place winners represent Egypt in the International Olympiads in Costa Rica in November.

## Europe

### **Student Robotics**

The 2018 Student Robotics competition provides a hands-on engineering experience to 500 students from the United Kingdom, France and Germany.

## Germany

### **Deutsche Jugendfeuerwehr Im Deutschen Feuerwehrverband (DJF)**

The DJF Diversity Project is a mentoring and volunteer fire brigade program designed for socially and educationally disadvantaged young people to improve equality and future employment prospects.

## Israel

### **Holon Institute of Technology (HIT)**

HIT provides scholarship support to university students from low socio-economic backgrounds in Israel pursuing studies in technology.

### **Israel Friends of Technion**

The Israel Friends of Technion ensures that no student is forced to stop studies at Technion due to financial difficulties and raises funds to provide educational scholarships to these students.

### **Tel Aviv University-Students Aid Unit**

Scholarships provide support to engineering and computer science students from low socio-economic backgrounds in Israel.

### **The Hebrew University of Jerusalem**

This scholarship provides support to 16 undergraduate students from low socio-economic backgrounds in engineering and computer science.

## **Kenya**

### **Africa Fire Mission (AFM)**

The 2017 Africa Fire Academies supports the All Kenya and Zambia Fire Academies which provide vital fire engineering, prevention and safety training to firefighters, communities and fire service leaders to enhance the sustainable capacity of fire services in Africa. The academies also support the expansion of AFM's service to Malawi and a fire prevention week in the informal settlement communities of Nairobi, Kenya.

## **Malaysia**

### **INTI**

INTI organizes and supports the annual MOTO Innocup, an inter-varsity embedded system competition among university students and workshops for high school students.

### **Penang Science Cluster**

Project Ignite inspires 3,000 students and 120 teachers from 30 schools to be inventors by engaging with STEM and Arts. The program fosters critical and creative thinking, collaboration and effective communication where students learn the design thinking process, coding and electronics using Arduino to build prototypes with the aim to solve problems in their community.

### **University Malaya**

University Malaya grants scholarships to two post-graduate students to provide essential analysis, design and implementation skills in radio frequency technology for IoT applications in Malaysia.

## **Mexico**

### **El Colegio de México**

El Colegio de **México's** "IT's to Enhance Social Capacity on Emergency Responses" courses for high-school students and local emergency management authorities create a platform of collaboration between emergency management civil servants and communities vulnerable to climate change.

#### **Movimiento STEM, A.C.**

STEM Solutions: Youth and Robotics Project aims to introduce STEM disciplines to female high school students as future career options through their direct and active participation in practical learning workshops based on robotic technology. Participants design, build, test, evaluate and enhance the performance of different robots with the support of specialized facilitators. Students between the ages 12 and 18 and current high school students come from poor and marginalized communities.

### **Philippines**

#### **Search and Rescue Unit Foundation**

The National Training Caravan - Advocacy Training Program educates citizens in local communities about disaster relief. A team leader in every family will be trained to save their family during actual disaster.

### **Poland**

#### **AGH University of Science and Technology**

Cybersecurity Winter School consists of different activities including lectures, workshops and projects that are conducted by experts in telecommunications and cybersecurity. The school also develops laboratories and equips next-generation firewalls with additional licenses to support security functionalities.

AGH University of Science and Technology's IoT Networks Project IoT with wireless SDN and High Throughput Wi-Fi Project has 15 students for the first year to map scenario requirements to device capabilities, configure sensors and controls into a functional network. The project provides a realistic, hands-on experience.

### **Republic of Korea**

#### **Korean Fireman's Mutual Aid Association**

The Share the Love program provides financial support to families of firefighters who have died in the line of duty in the Republic of Korea.

#### **The Police Mutual Aid Association**

The Police Mutual Aid Association provides financial support to families of police officers who have died or are injured in the line of duty in the Republic of Korea.

### **Singapore**

#### **National Crime Prevention Council**

National Crime Prevention Council supports training and programs for 6,000 volunteers conducting more than 27,000 crime prevention and security activities annually throughout Singapore to assist residents to take ownership of their neighborhoods.

### **Ngee Ann Polytechnic**

The Diploma in Product Design & Innovation provides 40 to 45 students a three-year diploma education in product design.

## **Spain**

### **Fundación Huérfanos CNP**

The Childhood and Youth Support program provides psychological, educational and social support to all orphans. The opportunity to participate in the socio-cultural program will be offered to them in order to improve their training to access the world of work.

## **Switzerland**

### **Foundation CERN & Société (CERN & Society Foundation)**

The CERN Beamline for Schools Competition gives two teams of 20 high-school students from anywhere in the world the opportunity to propose and conduct an experiment using a fully-equipped particle beamline.

## **Taiwan**

### **Taiwan Association of Retired Firefighters**

The Program to Promote the Community Fire Safety will be combined with the regional women's fire propaganda team to the north, central, south and east of Taiwan. Each will partner with a school to help them carry out self-defense fire group training and enhance the overall community disaster resistance.

## **Thailand**

### **The Redemptorist Foundation for People with Disabilities**

The Stemability of Disabilities In 21st Century Program supports the vocational school curriculum to empower more than 10 talented people with disabilities with the IT and language skills training needed to thrive in a digital world and develop IoT startups by people disabilities.

## **United Kingdom**

### **Greenpower Education Trust**

The Program enables 16 new teams, both primary and secondary, to participate in a highly inspirational, hands-on engineering challenge in which they can acquire and practice sustainable engineering skills as well as key character skills such as resilience and persistence.

### **Institution of Engineering and Technology (IET)**



IET Faraday Challenge Days enable more than 4,000 children from across the United Kingdom to step beyond the classroom and experience the thrill of pitching their engineering skills to solve real-life problems.

### **Royal Academy of Engineering**

Six contextualized teaching resources for lecturers in the United Kingdom Further Education colleges are being created to teach the work of technicians/engineers from engineering sectors where there is an acute lack of diversity. Resources include interactive exercise simulations and biographies of professional technicians/engineers from underrepresented groups working in these sectors.

### **University of Bristol**

The New Enterprise Competition brings students, graduates and staff of the University to develop and launch their own entrepreneurial ventures.

## **Vietnam**

### **Centre for Social Research and Development**

The Centre develops a public safety program to protect villages that are at risk for flooding in the Huong (Perfume) River around Hue City. The project implements best practice standards for flood warnings so that everyone involved understands the messages, knows what to do and communicates this to others.

### **Posts and Telecommunications Institute of Technology**

Advanced ICT research and development activities support high-quality publications and innovative ideas on advanced information and communication technology for graduate and undergraduate students.