

## THE 2013 SMARTER PLANET CHALLENGE: STUDENT PROJECTS CHANGING THE WORLD

- ⇒ Do you have an innovative solution to a real-world or humanitarian problem?
- ⇒ Are you ready to apply your engineering and business skills in order to develop and implement your solution?
- ⇒ Are you willing to share your knowledge and expertise so that future students can benefit and learn from your project experience?

If you answered yes to these questions the **2013 SMARTER PLANET CHALLENGE** is for you. We are in search of creative team-based student projects for the Smarter Planet Challenge. The purpose of the competition is to identify student developed multi-disciplinary projects that solve real-world or humanitarian problems, are ready for implementation and can be used by faculty and future students as a classroom project.

Students participating in the challenge will:

- *Contribute to the betterment of humanity by developing and implementing solutions to real-world challenges*
- *Learn how to apply engineering and business knowledge and expertise in order to develop problem-solving projects*
- *Gain critical teamwork and multi-disciplinary skill sets that are transferrable to the engineering workplace and provide a competitive advantage*
- *Contribute to the educational experience by sharing their project knowledge with future students as potential classroom projects*
- *Receive an IEEE Certificate of Participation*
- *Earn cash prizes . . . US\$5,000, \$4,000, \$3,000, \$2,000 and \$1,000 for the best student team proposals. (An additional number of US\$500 prizes for “honorable mention” may be awarded based on available budgets)*

### APPLICATION PROCESS:

To participate in the 2013 Smarter Planet Challenge, student teams must submit a project proposal and a video, which are described below.

**The Project Proposal should not exceed 10 pages and must contain the following items:**

- **Project title:** The name of the project.
- **Project Description:** Please provide one paragraph summary that describes the overall intent of this project.
- **How Does This Project Benefit Society?** Does this project address a real-world application or problem? Does it benefit a particular issue, industry, individual or group of people?
- **Student Learning Intent:** What are the underlying technical, engineering, businesses and legal principles and concepts students would learn by completing the project.

- **Target Student Audience:** Who is the intended audience? University first-year students, second-year students, etc.; primary school students or secondary school students.
- **Project Details:**
  - Introduce the problem the project is proposing to address and its solution.
  - Identify the specific activities that the students are required to perform.
  - Identify the required materials and resources.
  - Estimated number of hours to prepare for and implement the project.
  - Identify the major skills students need in order to complete the project.
  - Provide a project plan (what step by step instructions are required for students to complete this project, milestones, materials needed, budget, etc.).
  - What steps are required for the professor/teacher to use this project in class?
- **Implementation Results/Plan:** If your project was developed and implemented at the time of submittal, include a summary of the results with your proposal. This should include when and where the implementation took place as well as the impact. Did your project achieve the objective? How many people participated or were impacted? If your project has not yet been implemented, share any plans you have for implementation.
- **Lead proposer:** Please provide name, address, phone number, e-mail address, field of major, year of study and institution.
- **Team members:** For each member, please provide names, e-mail addresses, fields of major, year of study and institution.
- **Project Proposal Video Link** (see below).
- **Optional:** Teams may include an endorsement from faculty member(s).
- **Note:** *Projects created for other activities are eligible for submission as long as they are the result of all of the team members' original work.*

**The Project Proposal Video should not exceed 2 minutes and must be suitable for viewing on a video sharing site like YouTube or Dailymotion. The video should focus on the following item:**

- Lessons on how future students could implement the project

Note: The video might be used by IBM or IEEE for promotional or educational purposes.

### **ELIGIBILITY:**

- Teams must have a minimum of three members in any year of university study.
- The project teams must include members from more than one field of study (E.g. Business, Engineering, Health, Science, etc.).
- At least one team member must be an IEEE member ([IEEE Student Membership](#)).

## CRITERIA:

- Teams should be able to execute projects completely within one standard course time frame (such as a semester or a quarter).

## PROJECT TOPICS:

Selection preference will be given to projects that relate to needs in broad areas identified by the [IBM Smarter Planet Initiative](#) including:

- **[Analytics](#):** Vast amounts of data are being created by the instrumentation of almost everything on the planet. Smarter Analytics provides an ability to manage these huge quantities of structured and unstructured data that are critical to business and industry in making better decisions and driving improved outcomes.
- **[Security](#):** Is the position taken to protect people, assets, data and technology across an entire enterprise.
- **[Resilience](#):** Resilience is the ability to rapidly adapt and respond to business disruptions and to maintain continuous business operations.
- **[Social Business](#):** This is the next step in the overall evolution of business. The ways in which people interact, relationships form, decisions are made, work is accomplished and goods are purchased are fundamentally changing.
- **[Sustainability](#):** (energy, water, etc.) Sustainability is more than a worthy goal to preserve our planet's resources. It is proven that energy efficiency, conservation and other environmentally protective practices make good business sense.

## JUDGING CRITERIA

Project proposals will be evaluated in the following areas:

- **Basic Requirements:** Have all of the required aspects of eligibility been met?
- **Achievability:** Will the target audience of students be capable of performing the project tasks and completing the project within a reasonable amount of time as part of an existing course?
- **Feasibility:** Does the data and proposal content support the project objectives and how likely is it that a completed project will accomplish or solve the stated problem?
- **Project Proposal Format:** Are the proposal and video presented in a professional manner? Are all of the items listed above in the "Application" section included in the proposal?
- **Relevance:** Does the project align to one of the Smarter Planet Areas of Interest?

Complete details about eligibility, application procedures and selection criteria are available at [Smarter Planet Challenge](#).

## TO SUBMIT A COMPLETED APPLICATION:

Create a single document in Word or PDF format, no more than 10 pages in length and post a Video, no more than 2 minutes in length and submit the PDF and the **video link/file** to

<https://smarterplanetideas.myreviewroom.com>. Once you go to this link you will be required to create an account or you may link to your Facebook account if you have one.

Once logged into the website you will be required to:

- 1) Identify Team Members,
- 2) Upload project document/application and
- 3) Upload a video or provide YouTube Link.
- 4) Submit application (you can only complete this task after completing steps 1-3)

If there are any problems please contact us at [smarterplanetchallenge@ieee.org](mailto:smarterplanetchallenge@ieee.org)

**Submissions accepted now through 1 November 2013.**

**Final Notifications will be sent on or around 20 December 2013.**

**Note:** Successful candidates may be encouraged to pursue [Crowdfunding](#) resources to aid in project implementation.