



AFRICAN BIOMEDICAL ENGINEERING CONSORTIUM (ABEC) INNOVATORS SUMMER SCHOOL 2016 INTERNATIONAL HEALTH TECHNOLOGY DESIGN COMPETITION GUIDELINES FOR STUDENTS

GOAL:

The theme of this year's summer school is "Biomedical and Clinical Data and Informatics for Development in Africa". Students should identify a certain problem that affects healthcare delivery and quality in Africa and propose an efficient and cost-effective system for reducing or eliminating the problem through solutions derived using biomedical and/or clinical data and informatics. The proposal may include but is not limited to:

- Acquisition, transmission, storage, retrieval, management, processing and analysis of biomedical and health information;
- Applications of information and communication technologies in the practice of healthcare, public health, patient monitoring, preventive care, early diagnosis of diseases, discovery of new therapies, and patient specific treatment protocols leading to improved outcomes;
- Integration of electronic medical and health records, methods of longitudinal data analysis, data mining and discovery tools.

The project idea proposed should clearly address the following questions:

- 1) What is the proposed technology innovation? It **MUST** have a health impact, be it a medical device or not.
- 2) What is the health issue addressed? Provide background information on the identified challenge the technology solution addresses.
- 3) Does the project have a clearly identified target population (its end-users and/or customers)?
- 4) Does the project proposal incorporate performance indicators?
 - Specific, Measurable, Achievable, Relevant and Time Bound (SMART) indicators.
- 5) Technical and Economic Feasibility. Have a short business plan.
- 6) Ingenuity and Creativity.
 - Does the project design make good use of available resources?
- 7) Potential for commercialization
 - What is currently being done to address the problem?
 - Compare that with the proposed solution.
- 8) The teams must be multi-disciplinary in nature with at least, one team member from engineering and one from medicine and/or public health-related fields. This can be faculty, student or staff.
- 9) Teams are strongly encouraged to include at least one female student.

ELIGIBILITY CRITERIA

- Should not have attended the Summer School in previous years.
- Should be in the penultimate year of study.

PROCESS OF THE COMPETITION

- Write down your ideas and talk to the contact person at your university; write the ideas and mail a copy to your institutional contact. Don't send your project directly to ABEC. Institutional contact persons should send the selected projects to ABEC.
- Strictly use the format given when you write up your concepts and do not exceed the page limit (one page maximum).
- Include a three minutes (maximum) video demonstrating your work. Video size should not exceed 3MB.
- The concepts will be assessed by the Technical Committee based on their quality and merits and only selected projects will further be considered for presentation at the summer school.

IMPORTANT DATES

- **For students:** Check with your contact person at your university regarding the institution deadline. A list of contact persons at participating universities can be found at:

<http://abec-africa.org/universities/>

For further questions and inquiries, talk to your contact person at your institution or write to: info@abec-africa.org

- **For the institution:** Deadline for submission of initial ideas of selected projects is

16TH August 2016

Send selected projects to: secretariat@abec-africa.org

For more information you can visit the ABEC website at: www.abec-africa.com