

Facilitation of Medical Expertise in Cancer

IEEE Foundation Grant Application

krishna Institute Of Engineering & Technology, Ghaziabad

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Application Form

Report Fields

Project Title*

What is the title of your project?

Facilitation of Medical Expertise in Cancer

Area of Interest*

Select the ONE area of interest that best applies to your project.

Applying Technology for Humanitarian Causes

IEEE Region*

Enter the IEEE Region where the project will occur.

Region 10 - Asia and Pacific

Project Start Date*

01/01/2013

Project End Date*

12/31/2013

Name the organization requesting the grant.*

NOTE: If this grant is awarded by the IEEE Foundation, the grant will be paid to the organization named here.

IEEE KIET

Organization Type*

Select the one answer from the list below that describes your organization.

IEEE Organizational Unit (Section; Region; Society; Student Branch; etc).

Grant Amount Requested*

Enter the amount of the grant you are requesting from the IEEE Foundation (in US dollars). Round up or down to the nearest whole dollar. This MUST match the amount shown on the Project Budget.

\$897.00

Total Project Funding

Enter the total amount of funding needed to successfully complete this project (in US dollars). Round up or down to the nearest whole dollar. This MUST match the amount shown on the Project Budget.

\$897.00

Project Details

Project Summary*

Describe your project, including why the project is needed, what will be achieved, who will benefit, and what are the benefits. Conclude with a statement of what impact your project will have in your area of interest.

This project aims to study the causes, symptoms, prevention & cure of cancer disease. This project is Rule-based expert system (ES) which is form of intelligent technique and contain symptoms as its input variables in certain specified ranges & possible cures or referrals to doctors as its output. The proposed work has the adaptability of a back propagation based neural network and the decision-making ability of a rule based expert system. The proposed work is capable of dealing with complex system, which also includes rule chaining.

Information and communication Technology (ICT) used in the proposed work for the under-served community of 68.84% of India which dwells in rural areas where there is no easy availability of a doctor.

This project would also bring together the experts of different areas on a single platform to give the best possible treatment at a cost not exceeding 10% of a theoretical doctor's salary.

Provide detailed demographic information about the beneficiaries of the project.*

Include information about the number of people that will benefit, and the geographic areas to be impacted. As applicable, provide educational level, gender, age group, etc.

More than 5, 56,000 cancer deaths occurred in India in 2010 and 71.1% of those who died were aged between 30 and 69 years; moreover 42% (84,000) and 18.3% women (35,700) died of tobacco-related cancer in 2010. India has the highest number of oral cancers in the world with 75,000 to 80,000 new cases every year.

In all there are 7-9 lac cancer cases every year in India. So, approximately 25 lac people will be benefited if this project is implemented. Moreover if implemented globally 70% people of developing countries will be benefited.

Describe how your project relates to the areas of interest of IEEE.*

The areas of interest of IEEE are: Engineering; Computer Sciences and Information Technology; Biological and Medical Sciences; Mathematics; Physical Sciences; Technical communications, education, management, law and policy.

This project aims to provide medical assistance at a single click to those people who are living in rural areas where there is no or very limited access to medical services & supplies so that their chances of recovery from cancer can be enhanced through early diagnosis & regular treatment.

This is beneficial for humanity merging both Engineering & Biological & Medical sciences.

Project Timeline and Milestones*

State the sequence of steps, with projected dates, that you plan to carry out to complete your project. Show dates in the format MMMM-YYYY (e.g. October 2012)

Sr.No.	Activity	Projected Dates
1	Data collection & analysis	February 2013
2	Knowledge base system implementation	April 2013
3	Testing the effectiveness	May 2013
4	ICT challenges	August 2013
5	Concrete Implementation	November 2013
6	Impact Analysis	December 2013
(Total Time: 12 months)		

Project Evaluation*

Describe how you will measure that the project has been successful.

The project evaluation will be done by implementing the project in a rural area. The ICT systems employed there will be checked on practical grounds. Moreover, after implementing the project its regular feedback will be received from the people involved and its efficiency & impact on environment will be observed.

Ongoing Activity*

If your project will result in an ongoing activity after the project is completed, explain how the ongoing activity will be supported. (Note: The IEEE Foundation does not normally provide ongoing financial support.)

The primary healthcare support service that will be offered by this project will be able to be utilized by both static and mobile clinics. The project will supply the necessary IT equipment and land-based internet access required for users to link to our Indian clinical staff, as well as for the physicians volunteering their expertise.

In order to maximize the effectiveness of the project and the support of local communities, the project will be run in partnership with local NGOs and local government District Health Offices. Day-to-day oversight of the on-site telemedicine program will be undertaken by the NGO or government clinic staff, with technical backup provided by the project team.

Other Project Information

Is this a new project?*

Yes

Are you requesting funding from other organizations?*

(Support by others is a positive indicator of the value of the project, but not required.)

No

Funding from other organizations.*

If you answered "Yes" to the previous question, list the other organizations, the amount requested from each, and indicate whether the funding is confirmed, received, or pending. If you answered "No", please type "None".

None

Project Partners*

Are you partnering with any other group or organization on this project?

No

Project Partners*

If you answered "Yes" the previous question, enter the name(s). If you answered "No", please type "None".

None

Project Budget

Project Budget*

Download the [Project Budget form](#) complete and upload.

project_budget.xlsx

Budget Justification*

Explain the need for the items listed as "Expenses" in your Project Budget.

1. Medical Advisory: We will consult some experts of field for data collection on symptoms, prevention & possible cure such as medicines or some referrals to other expert physician.
2. Printer with scanner: This would be required for the following functions-
 - I. The hard copy of the prescribed medicine will be made available through printer.
 - II. If the sufferer wants to get more advices from other expert physician who is very far away, then he may produce his earlier reports of tests performed on him/her through scanner.
3. USB Data Modem: It will be used to provide an internet connection in the remote areas where wired internet connection is not available and not feasible.
4. Webcam & Headphone: These will ensure face to face communication (if any) between the physician and the patient to provide more suitable diagnosis.
5. Miscellaneous: This will include stationery which is required to be used in this project.

Project Team

Title*

Ms

First Name*

Bindu

Last Name*

Sharan

E-mail Address*

sharan.bindu@yahoo.com

Telephone Number*

Mailing Address

Bindu Sharan
Room No. F-36,
Sarojini Hall Of Residence
Krishna Institute of Engineering & Technology
Muradnagar, Ghaziabad
PIN-201206
Uttar-Pradesh

Title*

Dr

First Name*

Neeraj

Last Name*

Kumar Gupta

Is the Project Leader a member of IEEE?*

Yes

Provide a professional biography of the Project Leader.*

Dr. Neeraj Kumar Gupta is currently working as associate professor in department of Electrical & Electronics Engineering at KIET, Ghaziabad. He has been associated with IEEE (membership No. 92111172) since 2011. He is member of VLSI society of India &

International Associations of Computer Science and Information Technology.

He has been the reviewer of papers World Congress on Information and Communication Technology, Machine Intelligence Research Labs (MIR Labs) USA and Oxford Journal UK. He has published 21 international & national papers.

Under his guidance twenty five B.Tech & four M.Tech. projects have been completed. He has been conducting various seminars and short term courses in the institute.

Due to his efforts it was possible to establish the IEEE Student Chapter at KIET.

Title

Mr

First Name

Abhishek

Last Name

Pandey

Is the Second Team Member a member of IEEE?

Yes

Provide a professional biography for the Second Team Member.

Abhishek Pandey is currently a student of B. Tech third year in Department of Electrical & Electronics Engineering at KIET Ghaziabad. He joined IEEE as a student member (membership No. 92111225) this year. He is also serving as vice-chairperson of IEEE Student chapter at KIET. He has attended the summer training at KIET, certified by IEEE Delhi section. He has been participating in various technical and non technical activities.

He has been interested in control systems, machine & drives & soft computing.

Title

Ms

First Name

Ashank

Last Name

Atul

Is the Third Team Member a member of IEEE?

No

Provide a professional biography for the Third Team Member.

Ashank Atul is currently a student of B. Tech third year in Department of Electrical & Electronics Engineering at KIET, Ghaziabad. She attended the summer training at KIET, certified by IEEE Delhi section. Her areas of interest are electric machines & soft computing.

Title

Miss

First Name

Payal

Last Name

Dua

Is the Fourth Team Member a member of IEEE?

No

Provide a professional biography for the Fourth Team Member.

Payal Dua is currently a student of B. Tech third year in the department of Electrical & Electronics Engineering at KIET Ghaziabad. She has done a certified training at Defence Research and Development Organization (DRDO) and has acquired the skill of working on EAGLE & PSpice and interfacing the board layout and schematic of former to GERBER machine. She has also attended workshops held at IIT Delhi & TBI etc. Apart from this she has also participated and coordinated various technical & non-technical events.

Her areas of interest include soft computing, microcontrollers, power system & C language.

Declaration, Certification and Authorization

First Name*

Abhishek

Last Name*

Pandey

Declaration*

I Agree

Application Files

File Uploads

- project_budget.xlsx

