

An Indian-Australian research partnership

**Project Title:**

**Project Number**

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**IITB Department:**

**Research Clusters:**

**Research Themes:**

<p><b>Highlight which of the Academy's CLUSTERS this project will address?</b> <i>(Please nominate JUST <b>one</b>. For more information, see <a href="http://www.iitbmonash.org">www.iitbmonash.org</a>)</i></p>	<p><b>Highlight which of the Academy's Theme(s) this project will address?</b> <i>(Feel free to nominate more than one. For more information, see <a href="http://www.iitbmonash.org">www.iitbmonash.org</a>)</i></p>
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1	Material Science/Engineering (including Nano, Metallurgy)	1	Artificial Intelligence and Advanced Computational Modelling
2	Energy, Green Chem, Chemistry, Catalysis, Reaction Eng	2	Circular Economy
3	Math, CFD, Modelling, Manufacturing	3	Clean Energy
4	CSE, IT, Optimisation, Data, Sensors, Systems, Signal Processing, Control	4	Health Sciences
5	Earth Sciences and Civil Engineering (Geo, Water, Climate)	5	Smart Materials
6	Bio, Stem Cells, Bio Chem, Pharma, Food	6	Sustainable Societies
7	Semi-Conductors, Optics, Photonics, Networks, Telecomm, Power Eng	7	Infrastructure
8	<b>HSS, Design, Management</b>		

## The research problem

*Define the problem*

Identifying design issues in providing healthcare services with the help of information and communication technology (ICTs) by emergent users (i.e. those who are beyond the scope of ICTs right now). Examples of such users include elderly, pregnant women among urban or rural poor etc.

## Project aims

*Define the aims of the project*

Identify and push the boundaries of design knowledge to build a system that supports emergent users, build and deploy such a system, demonstrate impact, and articulate the lessons learnt.

## Expected outcomes

*Highlight the expected outcomes of the project*

It is the aspiration of this project that the outcomes will form a body of work outlining how a system of ~~public~~ (public and private) health services can benefit for a design methodology and what improved health and wellbeing outcomes could look like. Examples of such output could include:

- Behaviour change among the middle aged and elderly for lifestyle change
- Supporting pregnancy and child care among urban or rural poor with the help of smart phones
- Empowering the poor to manage their own health records over a long term

## How will the project address the Goals of the above Themes?

*Describe how the project will address the goals of one or more of the 6 Themes listed above.*

These project goals will capture within the research the theme of (8) Design.

## Capabilities and Degrees Required

List the ideal set of capabilities that a student should have for this project. Feel free to be as specific or as general as you like. These capabilities will be input into the online application form and students who opt for this project will be required to show that they can demonstrate these capabilities.

A background in Industrial (any branch of) Design, preferably a Masters or high level Bachelor degree in accordance with the eligibility regulations. A strong background in ICTs desirable.

## Potential Collaborators

Please visit the IITB website [www.iitb.ac.in](http://www.iitb.ac.in) OR Monash Website [www.monash.edu](http://www.monash.edu) to highlight some potential collaborators that would be best suited for the area of research you are intending to float.

Unicef is already working on Mo-bike ambulance for some tribal regions. This can be explored too (Ref: CTARA, IITB)

Philips, J&J and TCS are potential partners from IDC, plus hospitals, NGOs and other institutions could be knowledge and deployment partners

Select up to **(4)** keywords from the Academy's approved keyword list (**available at [www.iitbmonash.org](http://www.iitbmonash.org)**) relating to this project to make it easier for the students to apply.