# MEDICAL DEVICE DESIGN CHALLENGE

## INTRODUCTION

Are you interested in using the latest 3d design engineering technologies?

Do you enjoy a challenge?

Do you want to work with leading experts in the field of custom medical device design, advanced manufacturing, surgery and prosthetics?

Then enter our medical device design challenge.

We are encouraging creative use of 3d design engineering technologies in surgery and prosthetics. The competition is open to participants across India. It forms part of the Collaborative Medical Device Design Initiative (www.comeddi.com). Winners will be invited to take part in a hands on workshop. You'll get to learn about the latest 3d digital design technologies and work with likeminded innovators to develop your ideas.

## CHALLENGE DETAILS

We have three challenges:

1. **Custom Temporal Mandibular Joint (TMJ) reconstruction**
2. **Facial prostheses (eyes, ears, noses, etc)**
3. **Resource efficiency in medical device production**

## KEY INFORMATION

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| Entry opens: | 22th July 2019 |
| Entry closes: | 30th September 2019 |
| Applicants informed: | 11th October 2019 |
| Workshop date: | January 2020 (provisionally) |
| Workshop location: | Lucknow, Uttar Pradesh, India |
| Hosted by: | King George's Medical University with Cardiff Metropolitan University and Swansea Bay University Health Board |
| Expenses: | We'll pay for the winners' internal flights to attend the workshop. |
| Entry form & further details: | www.comeddi.com/design-challenge |

### About The Co-Meddi Project

The design challenge is part of a collaborative project between partners in the UK and India. The Co-Meddi project is funded by the UK India Education Research Initiative (UKIERI) project number UKIERI-UGC 2017 18. The project is collaboratively-developing regionally-appropriate methods that will enable the provision of custom made devices used to correct facial deformity to a greater number of people in India. The first part of the project has identified challenges of introducing 3d design engineering technologies into the Indian public healthcare system. We have also identified research projects that will help overcome these challenges. The next stage is to develop community training and industry partnerships that will help to implement the research. The design challenge and follow up workshop will encourage a collaborative approach from multiple disciplines to solving complex technical challenges. The Principal Investigators are Prof Divya Mehrotra (King George's Medical University) and Prof. Dominic Eggbeer (Cardiff Metropolitan University. The project is supported by co-investigators in Cardiff Metropolitan University and Swansea Bay University Health Board.

pdr. International Centre for Design & Research

UKIERI UK-India Education and Research Initiative

Cardiff Metropolitan University | Prifysgol Metropolitan Caerdydd

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