

# **ASCRIN Project: Smart Healthcare: Techno-Economic Aspects of Digitalization of Secure Healthcare Services in India and Australia**

## **Overview**

Australia's My Health Records (MHR) system breach reduced from 42 to 38 in 2019 and imposed costs nearly \$2 billion. In India, recent reports reveals that confidential patients' data has been used without their consent.

The healthcare service providers generate and store the data for in-home reviews for quality enhancement and post treatment care purposes. Electronic Health Records (EHR) breach will impose risk of harm. Thus, there is a need for efficient EHR secure healthcare services. As part of the research design, deep learning will be used along with the Context-Aware Access Control (CAAC), economic and ethical methods in defining dynamic safety and security policies.

We are seeking outstanding PhD applicant to work on the project.

## **Eligibility Criteria**

- Applicant must be able to demonstrate relevant research, analytical skills and strong interest in the areas of: Healthcare services, econometric/statistical/mathematical modelling, data analysis, and, institutions
- Applicant should meet both Indian Institute of Technology Kanpur (IIT-K) and La Trobe University (LTU) entry requirements. See the following web page for entry requirements:
  - 1) IIT-K: <https://www.iitk.ac.in/doaa/post-graduate-admission>
  - 2) LTU: <https://www.latrobe.edu.au/study/apply/research/doctor>

## **Application Process**

Applicant who require more information or are interested in this specific project should first contact the listed Supervisors: IIT-K supervisors: Murali Prasad Panta ([pmprasad@iitk.ac.in](mailto:pmprasad@iitk.ac.in)), Praveen Kulshreshtha ([pravk@iitk.ac.in](mailto:pravk@iitk.ac.in)) and LTU supervisors: ASM Kayes ([A.Kayes@latrobe.edu.au](mailto:A.Kayes@latrobe.edu.au)), Wenny Rahayu ([W.Rahayu@latrobe.edu.au](mailto:W.Rahayu@latrobe.edu.au)), Naveen Chilamkurti ([N.Chilamkurti@latrobe.edu.au](mailto:N.Chilamkurti@latrobe.edu.au)).

Information and guidance on the application process and scholarships can be found on this website.

## **Closing Date**

TBA