**University of Leicester**

**Future 50 PhD Scholarship**

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| **Project Reference** | RI IPH Khunti |

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| **First Supervisor** | Prof Kamlesh Khunti | | |
| **School/Department** | Diabetes Research Centre | | |
| **Email** | [Kk22@leicester.ac.uk](mailto:Kk22@leicester.ac.uk) | **Telephone Ext** | N/A |

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| **Second Supervisor** | Dr Setor Kunutsor | | |
| **School/Department** | Diabetes Research Centre | | |
| **Email** | skk30@leicester.ac.uk | **Telephone Ext** | N/A |

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| **Additional Supervisor (s)** | Dr Ash Routen, Diabetes Research Centre, [ar516@leicester.ac.uk](mailto:ar516@leicester.ac.uk)  Prof Chris Brightling, Department of Respiratory Sciences [ceb17@le.ac.uk](mailto:ceb17@le.ac.uk) |

**Section 2 – *Project Information***

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| **Project Title** | Inequalities in precision medicine in under-served groups | |
| **Project Highlights:** | 1. | Aim to further understanding on inequalities in precision medicine in under-served groups (e.g. ethnic minority populations) to generate recommendations for future research and practice. |
| 2. | Synthesize the available evidence on under-served groups’ participation in, and experiences of, precision medicine. |
| 3. | Explore views and experiences of precision medicine and taking part in biomedical and genomic research in under-served groups. |
| **Project Summary** | | |
| Precision medicine has the potential to revolutionise healthcare through the development of new and targeted treatments. The success of scaling these new approaches across larger populations will require careful and coordinated implementation, with associated monitoring of wider public health impacts. For example, it is well known that ethnic minority populations are one of many under-served and underrepresented communities in health and medical research. There is a risk that the potential benefits of precision medicine may be mitigated by increasing health inequity, if ethnic minority groups and socially disadvantaged population groups, for example, are not included in future research. Potential inequities carry both a health and economic burden, and therefore it is important for future biomedical research and genomic medicine to be conducted with diverse populations, as well as working to make sure the resulting medical advances are available and accessible to all.  The purpose of this doctoral studentship therefore, will be to further understanding on inequalities in under-served group’s (e.g. ethnic minority populations) participation in, and experiences of, precision medicine, to generate recommendations for future research and practice.  Three significant pieces of work to be conducted as part of this studentship will be: 1) to systematically review and synthesize the available evidence on under-served group participation in precision medicine research, and experiences of precision medicine; 2) conduct focus groups with a range of under-served groups to explore views and experiences of precision medicine and taking part in biomedical and genomic research; 3) Analysis of pre-collected data to examine inequalities in receipt and outcomes of precision medicine in under-served groups. Depending on the interests of the successful candidate this studentship may focus on a specific disease area such as cardiometabolic conditions.  The student will be embedded within a team of experts in equality, diversity and inclusion, ethnic minority health, and precision medicine, and will receive training in a broad range of both quantitative and qualitative data analysis techniques. | | |