



**MANIPAL**  
ACADEMY of HIGHER EDUCATION  
(Institution of Eminence Deemed to be University)



*Applications are invited for the*  
**CLINICAL RESEARCH AND TRAINING PROGRAM**  
*as part of the*

**CENTER FOR RARE DISEASE DIAGNOSIS,  
RESEARCH AND TRAINING**

*A DBT Wellcome Trust India Alliance funded program at*



**MANIPAL**  
ACADEMY of HIGHER EDUCATION  
(Deemed to be University under Section 3 of the UGC Act, 1956)



**Institute of  
Bioinformatics**

### Ph.D. opportunity for medical graduates and post-graduates

Are you a physician interested in pursuing research? Do the clinical challenges motivate you to seek new knowledge about health and disease and even discover new diseases? Rare genetic diseases present a unique challenge in healthcare in that a majority of these diseases currently have no known cure and present a significant burden to the affected patients and their families. The clinical research training programme (CRTP) for rare diseases, offers research training for physicians with a Ph.D. degree conferred upon completion. This training enables physicians to become multi-domain experts and rise to the challenge of bridging the gap between patient care and cutting-edge research in the domain of rare genetic diseases.

### Who can apply?

Post-graduates and graduates in Medical or Dental Sciences (DM/MCh/MD/MS/MBBS or equivalent qualifications) are eligible.

### Background

The program is a part of the core research activity of the Center for Rare Disease Diagnosis, Research and Training, a virtual center being established by Manipal Academy of Higher Education, Manipal, Institute of Bioinformatics, Bengaluru and Dr Reddy's Institute of Life Sciences, Hyderabad. This activity is funded by DBT Wellcome Trust India Alliance.

### Program details:

A full-time program of 3-4 years with training in basic science research for physicians: Handling samples, sequencing, analysis of Sanger sequencing and next-generation sequencing data, molecular biology, cell culture, animal models, systems biology and exposure to drug development in a clinical and laboratory environment. Students will complete the first 12 months of their training at MAHE, Manipal and will subsequently train at MAHE or one or more of participating institutions as well as have opportunities to train abroad with our international collaborators.

## Mentorship:

Mentors are MAHE-approved Ph.D. guides (physicians and scientists) from the three participating institutions:

1. Manipal Academy of Higher Education, Manipal (MAHE)
2. Institute of Bioinformatics, Bangalore (IOB)
3. Dr. Reddy's Institute of Life Sciences, Hyderabad (DRILS)

## International collaborators:

Students have an opportunity to stay and learn at state-of-the-art facilities from one of our several international collaborators listed below:

1. Antwerp University Hospital and University of Antwerp, Belgium
2. Institute of Human Genetics at Institute of Human Genetics University Medical Center Hamburg-Eppendorf, Germany
3. Manchester Centre for Genomic Medicine, St. Mary's Hospital, Manchester University Foundation NHS Trust, Health Innovation Manchester, Manchester, UK
4. Wellcome Sanger Institute, Hinxton, CB10 1SA, UK
5. Department of Clinical Genomics, Mayo Clinic, Rochester, Minnesota, USA

## Funding:

A budget of Rs. 50,00,000 is allocated per candidate. This amount will cover salaries, research expenses and travel. Six such fellowships are available.

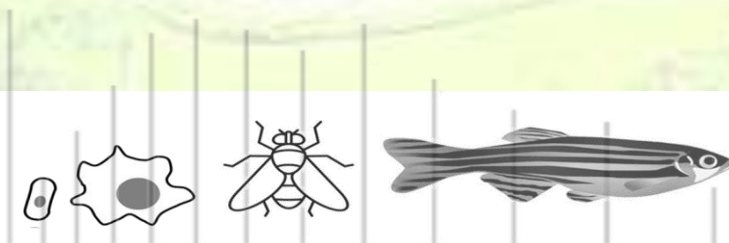
## Opportunities:

Candidates may be absorbed into a suitable permanent position based on availability at the host institution post successful completion of the programme.

## How to apply:

Interested candidates can submit their CV, a statement of interest stating why are you interested in research and the program to [jobs.research@manipal.edu](mailto:jobs.research@manipal.edu).

# Center for Rare Diseases



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