भारत सरकार | विज्ञान और प्रौद्योगिकी मंत्रालय
GOVERNMENT OF INDIA | MINISTRY OF SCIENCE AND TECHNOLOGY

सत्यमेव जयते

जैवप्रौद्योगिकी विभाग
DEPARTMENT OF
BIOTECHNOLOGY

Fellowship in Genetic Diagnostics

CALL FOR APPLICATIONS FOR 2ND BATCH OF TRAINEES

With an aim to expand National Inherited Disorders Administration Kendras (NIDAN Kendras) to provide comprehensive clinical care including diagnosis, management, multidisciplinary care, counseling, prenatal testing at Government Hospitals/ Medical Colleges, Department of Biotechnology (DBT), Government of India has launched a **6 month 'Fellowship in Genetic Diagnostics'** for Faculty/ Clinicians only from Government Medical Colleges and Hospitals. **Four (4) trainees in a year (in two batches) will be taken by each centre.**

In the current era of genomics, genetics has become an integral component of medicine. This platform would offer a great opportunity to Govt. Hospitals and Medical Colleges by training their permanent faculty, physicians and scientists who are keen to develop Genetic Facilities to cater the need of patients. The program will provide training in cytogenetic and molecular genetic techniques along with the understanding about their applications in patient care. Under this program well-established centres with facilities for diagnosis and management of genetic disorders have been selected to provide training. The list of centres where the Fellowship is available is given at the end. Interested and eligible candidates should send application to the centre of their interest in the format provided below. **Applicant should not apply to more than two centres at a time.** The fellowship will provide an opportunity to get training in the exciting field of genetics as applied for patient care. Further, the faculty members trained under this program will be eligible to apply for DBT grant for Establishment of National Inherited Disorders Administration Kendras (NIDAN Kendras) at their respective institutes/colleges/hospitals after successful completion of their training.

Eligibility and Mode of selection of trainees: Post-graduate degree (MD/MS/DNB) in Pediatrics, Medicine or Obstetrics & Gynaecology, Pathology, Microbiology, Biochemistry, Laboratory Hematology, Laboratory Medicine, Anatomy, Physiology, Dermatology, Hematology, Radiotherapy, Endocrinology, Ophthalmology, Oncology or any other clinical / paraclinical specialty/Superspecialty and **holding regular position in Government medical college/hospital.** **Mode of selection:** Screening and selection based on scrutiny of Application form and telephonic interview. The commitment to learn and the possibilities of implementation at the workplace will be judged.

Award Support: The trainee/clinicians **from outstation institutes** will be paid a displacement allowance of **Rs 30, 000 per month**.

Fellowship Schedule: 2nd Batch from 1st April 2020 to 30th September 2020

Fellowship of 2nd Batch will start from 1st April 2020.

Last date for submission of applications: 10th February 2020.

How to Apply: Application form ***(in the format given below)*** along with self-attested photocopies of degree certificates, MCI registration certificate and experience certificates should be sent to the following address. The application should be forwarded by the head (Director / Principal) of the institute. **Soft copy of the application is to be sent by email to the training coordinator of the concerned centre (s) and it should be followed by duly forwarded hard copy of the application along with copies of necessary certificates. (If there is delay in submitting the application through proper channel, candidate can submit advance copy within last date of application to consider candidature; and application through proper channel can be submitted so as to reach to the concerned training centre coordinator by 20th February 2020)**

While sending soft copy of the application to the concerned centre, copy of the email may please also be marked to Dr. Onkar N. Tiwari, Scientist 'E', Department of Biotechnology, Govt. of India in the email ID: onkar.dbt@nic.in for information.

LIST OF THE ALL NINE (8) CENTRES WHERE THE FELLOWSHIP IN GENETIC DIAGNOSTICS IS AVAILABLE IS AS FOLLOWS:

Sr No	Name of the Centre	Thrust areas	Clinical services	Laboratory facilities	Number of seats per year	Contact address of Training Co-ordinator
1.	Department of Medical Genetics, Sanjay Gandhi Postgraduate Institute of Medical Sciences, Raibarelly Road, Lucknow, 226014 [UP]	Birth defects, Genetic Hematology, Dysmorphology, IEM, Skeletal Dysplasias, Neurological and muscular disorders, Clinical Genetics	Clinical genetics, Prenatal Diagnosis, Disease Mangement, Fetal malformation diagnosis, Reproductive genetics, Genetic counseling, Management of	Cytogenetics, Cell Culture, Molecular Cytogenetics including Microarray, MLPA, Molecular Genetics, Sanger Sequencing, NGS Analysis, Enzyme Assays, Newborn screening	4	Dr Shubha Phadke, Head , Department of Medical Genetics shubharaophadke@gmail.com 0522 249 4334 / 4325

			genetic disorders, Fetal autopsy			
2.	Department of Haematology, Christian Medical College, Vellore, Tamilnadu 	Hemoglobinopathies, Disorders of Haemostasis, Bone marrow Failure syndromes Rare haematological disorders, Primary immunodeficiency Diseases	All inherited haematological disorders-Diagnosis and Management including Haematopoietic Stem cell transplant	State of the art molecular lab, Molecular Genetics- Identification of genetic variants, Sanger Sequencing, NGS Analysis, Interpretation of results and clinical correlation, Prenatal Diagnosis	4	Dr. Eunice Sindhuvi Department of Haematology eunice@cmcvellore.ac.in 0416 -228- 3569/3577
3	Department of Clinical Genetics Christian Medical College, Vellore, Tamilnadu 	Dysmorphology, Rare syndromes, Neuromuscular and neurodegenerative disorders, Genodermatosis, Cardiac and Renal, Autoimmune, Multifactorial disorders	Clinical genetics, Prenatal Diagnosis, Adult Genetics, Disease Management	Molecular Genetics laboratory for genetic variants by Sanger,genescan, NGS, Bioinformatics, Protein analysis, Relevant enzyme assays	4	Dr. Sumita Danda Head, Department of Clinical Genetics. sdanda@cmcvellore.ac.in 0416-228-3161/2304
4	Centre for Genetic Studies and Research, The Madras Medical Mission, Chennai – 600037, Tamilnadu	Cardiac genetics (Paediatric and adult), Reproductive genetics, Common genetic disorders /syndromes, Rare genetic diseases	Clinical genetics – prenatal, postnatal and adult genetics. Counselling and Management of genetic disorders.	Cell culture, Cytogenetics, Molecular cytogenetics (FISH), Aneuploidy screening and testing, , Sperm aneuploidy test (SAT),	4	Dr.Bibhas Kar Consultant and Head Centre for Genetic Studies and Research drbibhaskar65@gmail.com

				Single gene disorder testing		0 44 – 26561801 / 4259
5	Diagnostics Division, Centre for DNA Fingerprinting and Diagnostics, Hyderabad, Telangana	Cytogenetic testing for chromosomal disorders and copy number variations, Molecular testing for Thalassemia, DMD, SMA, other single gene disorders, NGS panel testing, Whole exome/ genome sequencing, enzyme assay for lysosomal storage diseases, inborn errors of metabolism testing	Not available	Cytogenetics, Cell Culture, Molecular Cytogenetics including FISH, Microarray analysis, Molecular Genetics, Sanger Sequencing, MLPA, Genotyping, NGS Analysis for whole exome/genome, Enzyme Assays	4	Dr Ashwin Dalal Head, Diagnostics Division, Centre for DNA Fingerprinting and Diagnostics adalal@cdfd.org.in 040-27216147/6148
6	Division of Genetics, Department of Pediatrics, AIIMS, New Delhi 110029	Dysmorphology, IEM, LSD, Skeletal dysplasia, birth defects, Neurodevelopmental disorders	Management of IEMs Enzyme replacement therapy for LSDs Genetic counselling And Prenatal diagnosis Fetal autopsy	Cytogenetics, Cell Culture, Molecular Genetics, Sanger Sequencing, MLPA, QF PCR, Real time PCR, Bioinformatics Analysis (NGS, CMA), Enzyme Assays, HPLC, Prenatal screening and testing	4	Dr Madhulika Kabra Dr Neerja Gupta madhulikakakbra@hotmail.com, neerja17aiims@gmail.com

7	ICMR-National Institute of Immunohaematology, 13th Floor, KEM Hospital, Parel, Mumbai, 400015	Primary Immunodeficiency Diseases, Transfusion medicine, Hemoglobinopathies, Red cell membranopathies and enzymopathies, Haemophilia and other inherited bleeding disorders, Inherited thrombotic disorders, Cytogenetics	Specialized diagnostic services for various inherited haematological and immunological disorders, Carrier detection and Prenatal diagnosis	Sanger sequencing, Cytogenetics, Karyotyping and FISH , HPLC system, Cell culture facility, Flowcytometry, Red cell enzyme assays, Automated coagulometer and thromboelastograph	4	Dr Manisha Madkaikar, Director, madkaikarmanisha@yahoo.co.in directorniih@gmail.com 02224132928 022 24138518/19
8	Division of Medical Genetics & Metabolism, Genetic lab, Department of Pediatrics, Maulana Azad Medical College, New Delhi	IEM, Newborn Screening, Dysmorphology, Skeletal Dysplasias, Neurological and muscular disorders, Clinical Genetics, Neurotramsmitter disorders	Clinical genetics, Prenatal Diagnosis, Disease Mangement, Emergency sick day IEM management	Mass spectrometry, Cytogenetics, Cell Culture, Molecular Cytogenetics, Molecular Genetics, Sanger Sequencing,, Enzyme Assays, Newborn screening & Confirmation	4	Dr Seema Kapoor, Head, Division of Medical Genetics drseemakapoor@gmail.com 011232397417, 01123221927

Last date for submission of applications: 10th February 2020

Application form is on the next page

Application form for the Fellowship in Genetic Diagnostics

1. **Full Name** (in Block letters) :
   (As per SSC / X Class Record)

Stick passport size photograph

2. **Gender:**
3. **Date of birth:** Age:
4. **Qualifications:**
5. **Medical council registration number:**
6. **Present designation:**
7. **Complete address:**
8. **Contact number(s):** **Email id:**
9. **Educational qualifications** (starting with graduation):

Degree	College/ University	Year of passing	Awards/ distinctions/ honours

10. **Professional experience** (in the chronologically descending order beginning with the current position):

Designation	Hospital/ Institute	Duration	Special experience/ honours if any

11. Additional academic achievements/ professional activities:

12. **Number & list of publications** (beginning with the most recent publication, list all publications with the complete reference): Please also attach the list

13. **Mention briefly (in not more than 250 words) your reasons for applying for this fellowship and how you think it would help you in your medical practice**:

Date:

Place: **Signature of the applicant**

Comment by forwarding authority:

Director / Principal / Dean of the Institute / Medical College **(Signature and Stamp)**