POST DOCTORAL FELLOWSHIP

Manipal Academy of Higher Education (MAHE), Manipal invites applications from eligible candidates across the globe for Post Doctoral Fellowship in various disciplines as detailed:

Areas                                      Desirable competencies

ENGINEERING
- Cyber Physical system, sensor hybridization, sensor data fusion
- Knowledge of computation tools like MATLAB/LabVIEW
- Composite materials
- Machine learning approach for detection of malignancy from histopathological images
- Bioinformatics, Systems biology, Metabolic flux balance analysis
- Well-versed with Cytoscape, Cell designer, COPASI toolbox, CellNetAnalyzer, MATLAB, metabolic network modeling and reconstruction toolkits.
- Elucidative study on theta functions
- Knowledge on Modular equations, theta-functions, q-identities, continued fractions, partition theory, Eisenstein series, convolution sums, hypergeometric functions.
- Supercapacitors, Electrocatalysis for hydrogen and oxygen evolution reaction
- Carbon dioxide conversion to renewable fuels
- Knowledge in CFD software/TRNSYS

HEALTH SCIENCE
- Healthcare associated infections and emergence of MDR in Neonates
- Diagnostics - TB LAM test in Tuberculosis
- Knowledge about TB disease and its diagnostic challenges

PHARMACEUTICAL SCIENCES
- Drug designing using computational tools and know how of Maestro and discovery studio
- Knowledge of computational tools for formulation design and development, aiming at experient selection and stability assessment. Well-versed in analytical and characterization techniques such as HPLC, thermal analysis, XRD, FTIR, NMR, etc.
- Ocular Drug Delivery, Transdermal Drug Delivery, Oral Drug Delivery
- Hands-on experience with statistical software and software used in formulation development

ALLIED HEALTH SCIENCES
- Virtual Foot for Early prediction and prevention of Diabetic Foot Ulcerations

ATOMIC AND MOLECULAR PHYSICS
- Sensing applications using 2D materials

LIFE SCIENCES
- Neurobiological and cancer screening methods for drug evaluation
- Drug designing using computational tools and know how of Maestro and discovery studio
- Sensing applications using 2D materials
- Sensing applications using 2D materials

Fellowship: INR 70000/- per month
Contingency (Part I): INR 50000/- per annum towards attending professional conferences, presentations, publications charges.
Contingency (Part II): INR 50000/- per annum towards procurement of chemicals, reagents, equipment etc.

ELIGIBILITY:
- Ph.D from Institutes in India or abroad other than MAHE and its constituent units.
- EXPERIENCE: Minimum one year of post Ph.D. experience in the relevant areas from Universities/Institutions of repute in India or abroad.
- AGE LIMIT: Below 35 years age at the time of submission of application.
- PUBLICATIONS: At-least two papers in top 10 percentile of journal based on Citescore in the two years preceding the application.
- DURATION OF FELLOWSHIP: One year. Extendable for a further period of one-year subject to satisfactory performance of the fellow, progress and need for continuation of the study as may be assessed and decided.

Eligible candidates may apply with a detailed CV including copies of certificates in support of qualification, experience and the list of publications & research activities with a subject line PDF - <Title of the area> to:

Director, Directorate of Research
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