



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:

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, COBRA 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

Nanotechnology-based targeted drug delivery for breast/ colon/ lung cancer.

Knowledge of computational tools for formulation design and development, aiming at excipient 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

Neurobiological and cancer screening methods for drug evaluation

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

Ageing Research

Fellowship/ Stipend: 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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