

DEPARTMENT OF BIOLOGICAL SCIENCES

IISER BHOPAL

Applications are invited for the post of **Research Associate / Postdoctoral Fellow** in the following research area (experimental):

Functional characterization of mitochondrial membrane protein import defects and onset of Parkinson's disease

Vacancies: ONE

Qualification: Ph. D. in the broad areas of cell biology, biochemistry, biophysics. Candidates with a degree in other disciplines can also apply if they have a strong aptitude for experimental protein biochemistry. Prior research experience in working with mitochondrial proteins and yeast model systems is highly desirable.

Age: Applicant should not have completed 34 years of age at the time of joining.

Salary: Rs. 47000 per month, based on qualification and prevailing DBT/CSIR norms.

Tenure: Minimum of 1 year and maximum of 3 years.

Job description: Generation of mutant library for the essential gene Tom40, membrane protein expression, characterization of morphological and physiological changes in yeast mitochondria, correlation of Tom40 defects with α -synuclein misimport in mitochondria, identification of molecular and metabolic defects in yeast, data analysis. Other research-related work can be assigned from time to time.

Apply to: [maha\[at\]iiserb.ac.in](mailto:maha@iiserb.ac.in) with detailed CV which includes date of birth, recent photograph, contact phone number, past research experience (detailed), one-page SoP, and the names and contact details of at least two referees. Incomplete applications or those that do not meet the minimum criteria will not be considered. **Shortlisted candidates will be contacted over e-mail with interview dates. Posts will be kept open until it is filled by suitable candidate.**

Description of research in the laboratory: We are working towards discovering the link between mitochondrial membrane protein import, membrane protein folding, protein stability and function. We combine ultrafast kinetics and spectroscopic measurements with single channel electrophysiology and cell survival assays to obtain a complete understanding of mitostasis and mitochondrial bioenergetics. We link mitochondrial dysregulation with the onset of debilitating pathologies including Parkinson's disease, other neurodegenerative disorders, and cancer. For further details, please visit our laboratory website at: <http://home.iiserb.ac.in/~maha/>.