INDIAN INSTITUTE OF TECHNOLOGY GANDHINAGAR
Research & Development Office

ADVERTISEMENT NO. IP/10358/Advt0278 DATED 16.07.2026

Applications are invited for a temporary position of **Post-Doctoral Fellow** at IIT Gandhinagar.

The details are as below:

Name of PI	Prof. Sabyasachi Shivkumar	Department	Cognitive & Brain Sciences
Project title	Building and Testing Normative Models of Natural Behavior		
Designation	Post-Doctoral Fellow		
Number of positions	2		
Application Link	http://recruitment.iitgn.ac.in/projectstaff/		
Last date of application submission	10/08/2026		
Consolidated Monthly Remuneration	₹72,000/- to ₹84,000/- per month		
House Rent Allowance per month (If applicable)	NA		
Duration of appointment	1 year (possible to extend depending on satisfactory performance & extension criteria)		
Eligibility Norms[1]	☒ Institute norms	☐ Funding Agency norms	
Essential Qualification/Experience as per the norms[1]	Ph.D. in Neuroscience, Cognitive Science, Psychology, Computer Science, Robotics, AI, Mathematics, or a related discipline from a recognized institute. Candidates who have submitted their Ph.D. thesis on or before the last date of application are also encouraged to apply. The candidate should have a minimum of 60% marks (or equivalent CGPA) from graduation onwards and 55% in Class X and XII, as per institute norms. The candidate must demonstrate expertise in at least one of the following research areas: * Human psychophysics (peformed experiments studying visual perception, multisensory integration, motor learning/control tasks) * Computational and Cognitive neuroscience * Reinforcement learning, Bayesian modeling, or probabilistic inference * VR-based behavioral experiments In addition, the candidate should possess: * Strong programming skills in MATLAB and/or Python * Experience in quantitative data analysis and statistical modeling * Ability to independently conduct research, design experiments, analyze data, and communicate scientific results * Good publication record in peer-reviewed journals * Strong written and oral communication skills		
Desirable Qualification/Experience	Preference will be given to candidates with experience in one or more of the following: * Designing and conducting visual, multisensory, or motor psychophysics experiments * Expertise in experiment design using Psychtoolbox, PsychoPy, OpenXR, Unity * Conducting Eye-tracking experiments * Robotic interfaces/split treadmill based motor learning experiments * Bayesian modeling, POMDPs, reinforcement learning, hierarchical Bayesian inference, contextual inference, or probabilistic graphical models * Model fitting, simulation, and statistical inference (MLE, MCMC, variational inference, mixed-effects models) * Scientific software development and reproducible research workflows (Git, Linux, Python/MATLAB) * Experience mentoring students and collaborating in interdisciplinary research		
Age Limit (If applicable)	N/A years as on last date of submitting application		
Job Description	The successful candidate will contribute to establishing a new research program investigating natural behavior through the Resource-rational Context-dependent POMDP (RCP) framework. The research combines computational modeling with behavioral experiments to understand natural behavior. The candidate will participate in: * Developing visual, multi-sensory, and motor-learning experiments using psychophysics, VR, eye tracking, and robotic interfaces. * Designing behavioral paradigms investigating perception, learning, planning, decision making, and contextual inference. * Developing computational models based on Bayesian inference, reinforcement learning, probabilistic modeling, and related approaches. * Collecting and analyzing behavioral datasets. * Building experimental and computational pipelines for reproducible research. * Contributing to publications and external research grant proposals. Depending on the candidate's expertise and interests, the position may emphasize experimental neuroscience, computational modeling, or an integration of both.		

For Query, Please Contact
Prof. Sabyasachi Shivkumar
sabyashiv@iitgn.ac.in