भारतीय वन्यजीव संस्थान
Wildlife Institute of India

Announcement

Qualifying Test and Interview to engage Research Fellows

The Wildlife Institute of India (WII) is a premier autonomous Institute under the Ministry of Environment, Forest & Climate Change, Government of India, in the field of wildlife research, teaching and training. The Institute plans to engage following positions/ research personnel (**Indian national only**): **Junior Research Fellows (08), Senior Research Fellow (01), Junior Project Fellows (15), Senior Project Fellows (03), Research Associates (02), Junior Technical Assistant (01), Project Fellows (04)** through a **Qualifying Test** followed by **Interview(s)**. Details of the positions along with essential and desirable qualifications, brief description of work are given below:

I. Details of Positions

1.	**Project Title, number of positions and duration**	**Influence of micro-climatic variables on herbaceous plant communities in treeline ecotone in the Himalaya** **(01 – Junior Research Fellow)** **Duration: Three years**
	Essential Qualification	Masters' Degree in Botany/ Forestry/ Environmental Science from a recognized University with a minimum of 60% aggregate marks. OR M. Tech/M.Phil in Botany or Plant Ecology with a minimum of 60% marks aggregate.
	Desirable Qualification	Research experience on Floristics/Ecological surveys/Climate change/RS &GIS related studies in western Himalaya
	Description of Work	This project deals with intensive work on influence of microclimatic variability on alpine plants. It visualizes rigorous and close monitoring of alpine plants during spring, summer and autumn under various conditions and involves prolonged study in alpine areas and out door camping.
2.	**Project Title, number of positions and duration**	**Population Genetic Structure of Nilgiri Tahr (*Hemitragus hylocrius*) in Western Ghats, India : Conservation and Forensic Implications** **(01 – Research Associate Grade I)** **Duration: One year**
	Essential Qualification	Ph.D. in Animal Genetics/Biotechnology/Wildlife Science/Life Science having good publications on relevant themes.
	Desirable Qualification	Experience in the Population Genetics and knowledge of relevant softwares.
	Description of Work	DNA extraction, PCR amplification, use of mtDNA and nuclear markers in population genetics and work assigned by the Principal Investigator(s) of the project.

3.	**Project Title, number of positions and duration**	**Monitoring of Reintroduced Gaur in Bandhavgarh Tiger Reserve, MP Phase II** **(01 – Senior Project Fellow)** **Duration : 1.5 years**
	Essential Qualification	Masters' Degree in Zoology/ Life Science/ Environmental Science/ Ecological Science/Biological Science/ Wildlife Science from a recognized University with a minimum of 60% aggregate marks and having at least two years of research experience. OR M.Phil in any discipline relevant to Biological Science/Life Science/Ecological Science with a minimum of 60% marks aggregate.
	Desirable Qualification	Relevant field research experience Candidates with strong physical and mental abilities and a keen desire to carry out field work.
	Description of Work	This study deals with ranging pattern, habitat use and resource selection as well as understanding food habits of reintroduced Gaur (*Bos gaurus gaurus*). It also includes assessing health condition of reintroduced gaur population and interaction with other wild ungulates and camp elephants The researcher is expected to spend 80% of the time in the field.
4.	**Project Title, number of positions and duration**	**Technical Support to WII's Research Laboratory** **(01 – Research Associate Grade I)** **Duration: One Year**
	Essential Qualification	Ph.D. Degree in Zoology/Botany/Wildlife Science/ Environmental Science/ Experimental Biology/ Life Science and having published at least one research paper in peer reviewed journal.
	Desirable Qualification	Experience in handling scientific instruments like UV spectrophotometer, HPLC' Gas Chromatography, etc.
	Description of Work	Provide technical assistance in routine Laboratory functioning, instrumentation and oversee laboratory activities.
5.	**Project Title, number of positions and duration**	**Implementing Rhino DNA Indexing System (RhODIS) to counter rhino poaching threat and aid population management in India** **(01 – Junior Research Fellow)** **Duration: Three Years**
	Essential Qualification	Masters' Degree in Zoology/Life Science/ Genetics/ Biotechnology/ Molecular Biology from a recognized University with a minimum of 60% aggregate marks. OR M. Tech/M.Phil in any discipline relevant to Biological Science/Life Science/Ecological Science with a minimum of 60% marks aggregate.
	Desirable Qualification	Experience of molecular work with non-invasive samples. is desirable. Theoretical understanding of population genetic and knowledge of basic population genetic analysis. CSIR, UGC-NET, GATE-Ecology qualified students will be given preference.

	Description of Work	The RhoDIS program aims to build a database of the existing rhino populations across all rhino-bearing states to match with confiscated contraband to produce scientific evidence before the law for prosecuting wildlife offenders. The student is expected to spend 60% of the time in the lab to conduct the molecular work and data analysis, with about 40% of the time in the field to collect samples and associated data.
6.	**Project Title, number of positions and duration**	**Atlas of colonial nesting waterbirds in the east coast states of India** **(01 – Junior Research Fellow)** **Duration: Two Years**
	Essential Qualification	Masters' Degree in Zoology/Forestry/ Life Science/ Experimental Biology/Environmental Science/ Environmental Management/ Wildlife Science from a recognized University with a minimum of 60% aggregate marks. OR M. Tech/M.Phil in any discipline relevant to Biological Science/Life Science with a minimum of 60% marks aggregate.
	Desirable Qualification	(1) Research and/or field experience in wildlife research (2) interest in scientific research, very good organisational skills and interest to work in interdisciplinary team (3) must possess good articulation and written communication skills in English published any scientific article
	Description of Work	The study involves carrying out a survey of colonial nesting birds and heronries in coastal states of Tamil Nadu, Andhra Pradesh, Odisha and West Bengal. Specific activities envisaged for the researcher engaged in the project are to: carry out field data collection, analyse field data, and should be prepared to travel quite extensively and work in remote field conditions.
7.	**Project Title, number of positions and duration**	**Atlas of colonial nesting waterbirds in the east coast states of India** **(01 – Junior Technical Assistant)** **Duration: One Year**
	Essential Qualification	Bachelors' Degree in any discipline related to Biological Science/Life Science/Environmental Science from a recognized University. OR B. Tech in any discipline relevant to Biological Science/Life Science/ Environmental Science.
	Desirable Qualification	Good command over written and spoken English, Interest to carry out both desk based and field based research.
	Description of Work	Assist the project team in day to day activities and functioning of the project both at Headquarters and in the field.

8.	**Project Title, number of positions and duration**	**Understanding disturbance impacts on psychological, nutritional health and their effect on reproductive capacity of wild tiger and leopards in the Terai-Arc landscape.** **(01 – Junior Research Fellow)** **Duration: Three years**
	Essential Qualification	Masters' Degree in Zoology/ Life Science/ Biochemistry/ Biotechnology from a recognized University with a minimum of 60% aggregate marks. OR M. Tech/M.Phil in any discipline relevant to Biological Science/Life Science/Environmental Science with a minimum of 60% marks aggregate.
	Desirable Qualification	Research experience in animal nutrition ecology, non-invasive samples, knowledge of statistical analysis and modeling. CSIR, UGC-NET, GATE-Ecology qualified students will be given preference.
	Description of Work	This study aims to use non-invasive endocrine and molecular tools to quantify hormonal indices of physiological, reproductive health and parasite loads under varying anthropogenic pressures in tiger and leopard populations in the Terai-Arc landscape The student is expected to spend 80% of the time in the WII lab to conduct the endocrine analysis and about 20% of the time in the field to collect samples and associated data.
9.	**Project Title, number of positions and duration**	**Developing genetic database to understand metapopulation dynamics and connectivity of tigers and other large predators across tiger landscape of Maharashtra, India** **(01 – Junior Research Fellow)** **Duration: Three years**
	Essential Qualification	Masters' Degree in Zoology/Life Sciences/ Genetics/ Biotechnology/ Molecular Biology from a recognized University with a minimum of 60% aggregate marks. OR M. Tech/M.Phil in any discipline relevant to Biological Science/Life Science/Environmental Science with a minimum of 60% marks aggregate.
	Desirable Qualification	Experience of molecular work with non-invasive samples. Theoretical understanding of population genetics, knowledge of basic population genetic analysis. CSIR, UGC-NET, GATE-Ecology qualified students will be given preference.
	Description of Work	This study aims to analyse metapopulation dynamics of tigers through characterization of habitats, genetic analysis in the laboratory to evaluate population dynamics in tiger, leopard, dhole and sloth bears in the tiger landscape of Maharashtra. The student is expected to spend 60% of the time in the lab to conduct the molecular work and data analysis, with about 40% of the time in the field to collect samples and associated data.

10.	**Project Title, number of positions and duration**	**Ecology of wolves with emphasis on dispersal in a human dominated landscape, Maharashtra, India** **(01 – Junior Research Fellow)** **Duration: Three years**
	Essential Qualification	Masters' Degree in Zoology/Forestry/ Life Sciences/ Experimental Biology/Environmental Science/ Environmental Management/ Wildlife Science from a recognized University with a minimum of 60% aggregate marks. OR M. Tech/M.Phil in any discipline relevant to Biological Science/Life Science/Environmental Science with a minimum of 60% marks aggregate.
	Desirable Qualification	Relevant field research experience. Candidates with strong physical and mental abilities and a keen desire to carryout field work with minimum logistics support. CSIR, UGC-NET, GATE-Ecology qualified students will be given preference.
	Description of Work	The work involves collection of data regarding movement of Wolves across the Deccan landscape.
11.	**Project Title, number of positions and duration**	**Long term monitoring of tigers, co-predators & prey species in Tadoba-Andhari Tiger Reserve and adjoining landscapes, Maharashtra.** **(01 – Junior Research Fellow)** **Duration: Two Years**
	Essential Qualification	Masters' Degree in Zoology/Forestry/ Life Science/ Experimental Biology/Environmental Science/ Environmental Management/ Biological Science/ Wildlife Science from a recognized University with a minimum of 60% aggregate marks. OR M. Tech/M.Phil in any discipline relevant to Biological Science/Life Science/Environmental Science with a minimum of 60% marks aggregate.
	Desirable Qualification	▪ Experience in basic wildlife techniques (study design, sign surveys, line transects, vegetation sampling, camera trapping, occupancy etc.) ▪ Conversant with data analysis, ecological & statistical software (abundance estimation, mark recapture, DISTANCE, MARK, PRESENCE)
	Description of Work	Studying tigers and co-predators through radio telemetry, population estimation and monitoring, prey population estimation, habitat use, predation and human-animal conflict evaluation. The researcher is required to conduct field work to collect relevant data to address the varied aspects of the study.

12.	**Project Title, number of positions and duration**	**Wildlife Forensics and Conservation Genetic Cell** **(02 – Junior Project Fellows)** **(Duration: One Year)**
	Essential Qualification	Masters' Degree in Zoology/ Life Science/ Ecological Science/Biological Science/ Wildlife Science from a recognized University with a minimum of 60% aggregate marks. OR M. Tech/M.Phil in relevant discipline with a minimum of 60% marks aggregate.
	Desirable Qualification	Experience of animal taxonomy, molecular work, knowledge of morphology based taxonomy and/or basic population genetic analysis.
	Description of Work	Selected candidates are required to assist in regular work in Wildlife forensic analyses in the cell and take up any work assigned by the Nodal Officer.
13.	**Project Title, number of positions and duration**	**Wildlife Forensics and Conservation Genetics Cell** **(01– Senior Project Fellow)** **(Duration: One Year)**
	Essential Qualification	Masters' Degree in Zoology/ Life Sciences/ Environmental Science/ Biological Science/ Wildlife Science from a recognized University with a minimum of 60% aggregate marks and having at least two years of research experience. OR M.Phil in any discipline relevant to Biological Science/Life Science/Environmental Science with a minimum of 60% marks aggregate and possess at least two years of research experience.
	Desirable Qualification	Experience of Taxonomy/ molecular work with a track record in publication, knowledge of morphology based taxonomy and/or basic population genetic analysis.
	Description of Work	Selected candidate is required to assist in regular work in Wildlife forensic analyses and also take up any work assigned by Nodal Officer.
14.	**Project Title, number of positions and duration**	**Intensive monitoring of tiger and study of dispersal in Kanha tiger reserve (Phase IV monitoring)** **(02– Junior Project Fellows)** **Duration: One year**
	Essential Qualification	Masters' Degree in Forestry/ Life Science/ Environmental Science/Biological Science/ Wildlife Science from a recognized University with a minimum of 60% aggregate marks. OR M. Tech/M.Phil in relevant field with a minimum of 60% marks aggregate.
	Desirable Qualification	Research experience in wildlife monitoring, abundance estimation using camera traps and radio telemetry. Candidates having good experience in GIS and ecological data analysis will be preferred.

	Description of Work	Candidate is expected to monitor the tiger, co-predator, prey and their habitat related research work in the field. Monitor radio-collared animals. Maintain monitoring database and impart training to forest staff regarding wildlife monitoring and MSTrIPES.
15.	**Project Title, number of positions and duration**	**MSTrIPES - Monitoring of Tigers: Intensive Patrolling and Ecological Status** **(04– Junior Project Fellows)** **Duration: One year**
	Essential Qualification	Masters' Degree in Botany/Zoology/Forestry/Statistics/Life Science/ Experimental Biology/Environmental Sciences/ Environmental Management/ Geo-informatics/Ecological Sciences/Biological Sciences/ Wildlife Science from a recognized University with a minimum of 60% aggregate marks. OR M. Tech/M.Phil in any discipline relevant to Biological Science/Life Science/Ecological Sciences.
	Desirable Qualification	Candidates having field experience in conducting ecological research and monitoring and having good experience in GIS and ecological data analysis will be preferred.
	Description of Work	Candidate is expected to maintain monitoring database and impart training to forest staff regarding wildlife monitoring and MSTrIPES
16.	**Project Title, number of positions and duration**	**E-bird Technology for Tiger Conservation: Development and Integration of Un-manned Aerial Vehicles as a Surveillance and Monitoring Tool for Protection of Tiger and Capacity Building of Frontline Staff** **(03– Junior Project Fellows (Biologist))** **Duration: One year (Extendable upto three years)**
	Essential Qualification	Masters' Degree in Life Science (Wildlife Science/ Botany/ Zoology/ Forestry/ Life Science/ Agriculture/ Environmental Sciences/ Biological Sciences/ Veterinary Science/ Geo-informatics) from a recognized university/institute with a minimum of 60% aggregate marks.
	Desirable Qualification	Experience/interest in (a) Human-wildlife conflict mapping, (b) Forensic investigation, (c) Spatial analysis and modelling using Remote Sensing and GIS tools; (d) Radio-telemetry; (e) Camera trapping and analyses; (f) Population estimation techniques.
	Description of Work	Modelling and mapping human-wildlife conflict areas and identification of vulnerable areas for human-wildlife conflicts; Identification and rationalization of surveillances sites in the context of poaching risks; undertake R&D for animal telemetry based on VHF and RFID using UAV; habitat mapping and wildlife population estimation using UAV.

17.	**Project Title, number of positions and duration**	**E-bird Technology for Tiger Conservation: Development and Integration of Un-manned Aerial Vehicles as a Surveillance and Monitoring Tool for Protection of Tiger and Capacity Building of Frontline Staff** **(03– Junior Project Fellows (Engineer))** **Duration: One year (Extendable by three years)**
	Essential Qualification	Masters' Degree in Technology/Engineering (Aeronautical/ Aerospace/ Mechatronics/ Robotic/ Electrical/ Electronics) from a recognized university/institute with a minimum of 60% aggregate marks.
	Desirable Qualification	Experience/interest in (a) Design and development of UAVs; (b) Robotic engineering; (c) Short-range and long-range telecommunications; (d) Working with autopilots; (f) Repair & maintenance of fixed wing and rotary wing aerial systems/drones.
	Description of Work	Procurement, design and assembling of fixed-wing and rotary-wing UAVs; Fly UAVs and training field staff for implementation at field level. Develop interface technology for telemetry involving VHF/GPS/RFID tools; Develop interface technology and remote data transfer and automated data collection through wireless communication; In-house development and technology transfer to field teams.
18.	**Project Title, number of positions and duration**	**Reconciling development with conservation: delineating habitat patches and corridors for Gir lions** **(01– Junior Project Fellow)** **Duration: Two years**
	Essential Qualification	Masters' Degree in Zoology/Life Science/ Environmental Science/ Wildlife Science from a recognized University with a minimum of 60% aggregate marks
	Desirable Qualification	Field Experience on large carnivores, proficient with GIS analytical tools and mapping. Candidates with strong physical and mental abilities and a keen desire to carry out field work with dangerous large carnivores
	Description of Work	Field data collection on lion range use, habitat needs in the landscape. Mapping of corridors in a GIS domain.
19.	**Project Title, number of positions and duration**	**Dissemination and evaluation of technologies through networking of various institutes and organization of mountain ecosystem** **(01– Senior Research Fellow)** **Duration: Three years**
	Essential Qualification	Masters' in Wildlife Sciences/Zoology/Life Sciences/Forestry/Environmental Management or any other subject related to biodiversity and conservation with a minimum aggregate score of 60%.
	Desirable Qualification	• Minimum of two years research experience preferably in conducting socio-economic and research monitoring work. • Proficiency in using computers and good writing skill in English language. • UGC/CSIR NET JRF qualified.

	Description of Work	• Monitoring of livelihood intervention projects funded by DST'S TIME-LEARN (Technology Intervention for Mountain Ecosystem: Livelihood Enhancement through Action Research & Networking) Programme. • Review past TIME and decide future TIME program with changing priorities and needs to mitigate rapidly degenerating mountain values. • Develop scientific strategies for livelihood interventions, which are locally developed and implemented with community participation.
20.	**Project Title, number of positions and duration**	**Dissemination and evaluation of technologies through networking of various institutes and organization of mountain ecosystem** **(01– Junior Research Fellow)** **Duration: Three years**
	Essential Qualification	Masters' in Wildlife Sciences/Zoology/Life Sciences/Forestry/Environmental Management or any other subject related to biodiversity and conservation with a minimum aggregate score of 60%.
	Desirable Qualification	• Minimum one year research experience preferably in conducting socio-economic and research monitoring work. • Proficiency in using computers and good writing skill in English language. • UGC/CSIR NET JRF qualified.
	Description of Work	• Monitoring of livelihood intervention projects funded by DST'S TIME-SEED (Technology Intervention for Mountain Ecosystem: Livelihood Enhancement through Action Research & Networking) Programme. • Review past TIME and decide future TIME program with changing priorities and needs to mitigate rapidly degenerating mountain values. • Develop scientific strategies for livelihood interventions, which are locally developed and implemented with community participation.
21.	**Project Title, number of positions and duration**	**Population of the Estimation and Ecology of Tigers in Sunderban Tiger Reserve** **(01– Senior Project Fellow)** **Duration: Two years**
	Essential Qualification	Masters' Degree in Zoology/ Life Science/ Environmental Science/ Ecological Science/Biological Science/ Wildlife Science from a recognized University with a minimum of 60% aggregate marks and having at least two years of research experience. OR M.Phil in any discipline relevant to Biological Science/Life Science/Ecological Science with a minimum of 60% marks aggregate.
	Desirable Qualification	Working experience on carnivores, Sundarban landscape, and use of telemetry is preferred.
22.	**Project Title, number of positions and duration**	**Assessment and monitoring of climate change effects on wildlife species and ecosystems for developing adaptation and mitigation strategies in the Indian Himalayan region** **(01– Project Fellow (Bird))** **Duration: Three years**
	Essential Qualification	Masters' Degree in Wildlife Sciences/ Zoology/ Forestry/ Environmental Sciences or Management/ Life Sciences/ Biodiversity and Conservation/ with a minimum of 60% aggregate marks from a recognized University.

	Desirable Qualification	• Prior experience and interest in field data collection for birds and their habitats • Data analysis and interpretation skills • Science writing and communication skills
	Description of Work	The position involves baseline data (primary/secondary) collection on birds of the Indian Himalayan Region and impacts on birds due to climate changes and anthropogenic drivers and socio-economic parameters; undertake intensive research on database and scenario building for ecological parameters with respect to climatic variables. Only Candidates who are willing to work in arduous field conditions in remote location of the Indian Himalayan Region with limited logistic support need to apply.
23.	**Project Title, number of positions and duration**	**Human-wildlife conflict resolution mechanism in the Indian Himalayan region: risk assessment, prediction, and management through research and community engagement** **(03– Project Fellow)** **Duration: Two years**
	Essential Qualification	Master's Degree in Wildlife Sciences/ Zoology/ Forestry/ Environmental Sciences or Management/ Life Sciences/ Biodiversity and Conservation with a minimum of 60% aggregate marks from a recognized University.
	Desirable Qualification	• Experience /interest in: field data collection for mammals; abundance estimation and analysis; behavioural studies • Remote sensing & GIS • Human dimensions of wildlife management, working with communities to reduce conflicts
	Description of Work	The position involves action research on the problem of human-wildlife conflict to evolve feasible solutions in mitigating it in the IHR. The candidate is expected to carryout field research in close coordination with the State Forest /Wildlife Department officials and field staff, and local communities under the supervision of the WII faculty. Development of spatial database on human-wildlife conflicts and risk prediction using RS & GIS tools, Develop and implement mitigation measures for human-wildlife conflict with regard to the target species (Snow leopard, Common leopard, Himalayan brown bear, Asiatic black bear, Wild pig and Rhesus macaque) in remote high altitude sites in the Indian Himalayan region through community engagement. Only Candidates who are willing to work in arduous field conditions in remote location of the Indian Himalayan Region with limited logistic support need to apply.

Age criteria and monthly fellowship of the advertised positions are as follows

S. No.	Position	Upper Age Limit	Age relaxation	Monthly Fellowship
1.	Junior Research Fellow	**28 years**	The upper age limit may be relaxed up to 5 years for the candidate(s) belonging to SC/ST/OBC/Women and Physically Challenged category.	Rs. 25,000/- + HRA (as admissible)
2.	Senior Research Fellow	**32 years**	-do-	Rs. 28,000/- + HRA (as admissible)
3.	Junior Project Fellow	**30 years**	-do-	Rs. 25,000/- + HRA (as admissible)
4.	Research Associate – Grade I	**40 years**	-do-	Rs. 36,000/- + HRA (as admissible)
5.	Senior Project Fellow	**35 years**	-do-	28000 + HRA (as admissible)
6.	Junior Technical Assistant	**26 years**	-do-	16000 + HRA (as admissible)
7.	Project Fellow (Birds)	**28 years**	-do-	Rs. 25,000/- + HRA (as admissible)
8.	Project Fellow	**28 years**	-do-	Rs. 16,000/- + HRA (as admissible)

Syllabus

Question paper will be General and Subject Knowledge specific based on syllabus of M.Sc. in Wildlife Science, Environmental Science, Natural Resource Management, Forestry, Veterinary Science, Agricultural Science, Technology/Engineering (Aeronautical/ Aerospace/ Mechatronics/ Robotic/ Electrical/ Electronics) and M.A. course in Social Science, Economics, Mass Communication, Anthropology and Psychology.