



## ANNOUNCEMENT

### Recruitment of Research Personnel

ADVT. NO.: WII/RES/RSCHRS-Selection'2019(1)/A.3.21

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 invites application from the Indian nationals for the following research personnel, through a Qualifying test followed by Interview(s). Details of the positions along with essential and desirable qualifications, brief description of work are given in **Annexure-1**.

Age criteria and monthly fellowship, etc. of the advertised positions are as follows:

S. No.	Position	No. of positions	Upper Age Limit#	Monthly Fellowship
1.	Research Associate	01	40 years	Rs. 47,000/- + HRA (as admissible)
2.	Senior Research Fellow (Ecology)	01	32 years	Rs. 35,000/- + HRA (as admissible)
3.	Senior Research Fellow (Statistics)	01	32 years	Rs. 35,000/- + HRA (as admissible)
4.	Junior Research Fellow	02	28 years	Rs. 31,000/- + HRA (as admissible)
5.	Junior Research Fellow (Genetic Component)	01	28 years	Rs. 31,000/- + HRA (as admissible)
6.	Junior Research Fellow (Ecology Component)	12	28 years	Rs. 31,000/- + HRA (as admissible)
7.	Junior Research Fellow (Statistics)	01	28 years	Rs. 31,000/- + HRA (as admissible)
8.	Junior Research Fellow (Sociology)	01	28 years	Rs. 31,000/- + HRA (as admissible)
9.	Web-GIS Developer	01	35 years	Rs. 40,000/- consolidated
10.	Forensic Researcher	01	30 years	Rs. 25,000/- + HRA (as admissible)
11.	Project Fellow	06	35 years	Rs. 25,000/- + HRA (as admissible)
12.	Project Fellow (Human Dimension)	02	35 years	Rs. 25,000/- + HRA (as admissible)
13.	Project Fellow (Ecology)	02	35 years	Rs. 25,000/- + HRA (as admissible)
14.	Project Fellow (Spatial Analyst)	01	35 years	Rs. 25,000/- + HRA (as admissible)
15.	Project Fellow (Conservation Genetics)	01	35 years	Rs. 25,000/- + HRA (as admissible)
16.	Research Assistant	01	28 years	Rs. 22,000/- consolidated
17.	Project Assistant	03	28 years	Rs. 20,000/- consolidated
18.	Junior Technical Assistant	01	26 years	Rs. 16,000/- + HRA (as admissible)

S. No.	Position	No. of positions	Upper Age Limit#	Monthly Fellowship
	<b>Total positions</b>	<b>39</b>		

# - 1. Age as on 1<sup>st</sup> June 2019, 2. Upper age limit may be relaxed upto 5 years for the candidate belonging to SC/ST/OBC/Women and physically challenged category.

### **Syllabus**

Common Entrance Test would be based on syllabi of Masters' Degree in Wildlife Science/ Botany/ Zoology/ Forestry/ Life Science/ Social Science/ Sociology/ Economics/ Environmental Sciences/ Environmental Management/ Biodiversity Conservation/ **Geoinformatics**/ Ecology/ Environment & Sustainable Development/ Statistics/ Anthropology/ Wildlife Biology/ Molecular Biology/ Biotechnology/ Genetics/ Animal Genetics.

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## Requirement of Research Personnel

**Note: Candidates appearing for final exam of Master's in current year will not be eligible for the test/interview.**

Name of Project	Position and No.	Duration	Fellowship	E.Q./D.Q.	Description of work
Developing a collaborative management strategy for conservation of tigers in North East India, Component 1: Status and Conservation of Tigers and Their Habitats in Hill Ranges of North East India with special reference to Mishmi Hills, Manipur and Nagaland	Project Fellow  <b>(06 nos.)</b>	Four Years	Rs.25000 +HRA (as admissible)	<b>EQ:</b> Masters' Degree in Wildlife Science/ Botany/ Zoology/ Forestry/ Life Science/ Social Science/ Environmental Sciences/ Statistics/Anthropology from a recognized University and minimum one year work experience in similar field.  <b>DQ:</b> Preferably having experience/interest in: natural history of north-east India, wildlife surveys, camera trapping, socio-cultural surveys, quantitative methods, R, GIS-RS and most importantly keen desire to carryout arduous field work in the remote and rugged landscape of north east India under extreme cold or rainy conditions with minimal logistic support.	Work involves conducting ecological studies on tigers and their prey species in selected remote areas of Arunachal Pradesh, Manipur and Nagaland. Dibang Valley District (2 nos) Lower Dibang Valley (1 no) Kamlang TR (1 no) Manipur & Nagaland (1 no) Sociocultural aspects (1 no)
	Project Assistant  <b>(03 nos.)</b>	Four Years	Rs.20000 (Consolidated)	<b>EQ:</b> Bachelors' Degree in any discipline from a recognized university. <b>DQ:</b> Good command over written and spoken English, Interest to carry out both desk based and field based research.	Work involves surveying for tigers and their prey species in selected areas of Arunachal Pradesh, Manipur and Nagaland. Assist the project team in day-to-day activities and functioning of the project.
An integrated approach for conservation of Takin ( <i>Budorcas taxicolor</i> ) in North East India: Linking species ecology and traditional ecological knowledge	Junior Research Fellow  <b>(01 no.)</b>	Three Years	Rs.31000 +HRA (as admissible) (for first 2 years) 35000+HRA (for 3 <sup>rd</sup> year subject to satisfactory performance)	<b>EQ:</b> Masters' Degree in Wildlife Science/ Botany/ Zoology/ Forestry/ Life Science/ Social Science/ Environmental Sciences/ Statistics/ Anthropology with a minimum of 60% aggregate marks from a recognized University.  <b>DQ:</b> Preferably having experience/interest in: natural history of north-east India, wildlife surveys, camera trapping, movement ecology, socio-cultural surveys, quantitative methods, R, GIS-RS and most importantly	Work involves ecological study on Takin in selected areas of Arunachal Pradesh and Sikkim

Name of Project	Position and No.	Duration	Fellowship	E.Q./D.Q.	Description of work
				keen desire to carryout arduous field work in the remote and rugged landscape of north east India under extreme cold or rainy conditions with minimal logistic support	
	Research Assistant <b>(01 no.)</b>	Three Years	Rs.22000 (consolidated)	<b>EQ:</b> Bachelors' Degree in any discipline related to Biological Science/Life Science/Ecological Sciences from a recognized university. <b>DQ:</b> Good command over written and spoken English, Interest to carry out both desk based and field based research.	Work involves ecological study on Takin in selected areas of Arunachal Pradesh and Sikkim. Assist the project team in day-to-day activities and functioning of the project in the field.
Atlas of colonial nesting waterbirds in the east coast states of India	Junior Technical Assistant <b>(01 no.)</b>	One Year	Rs.16000 +HRA (as admissible)	<b>EQ:</b> Bachelors' Degree in any discipline related to Biological Science/Life Science/Ecological Sciences from a recognized university. <b>DQ:</b> Good command over written and spoken English, Interest to carry out both desk based and field based research.	The study involves carrying out a survey for colonial nesting birds and heronries in east coast states. Assist the project team in day-to-day activities and functioning of the project both at Headquarters and in the field.
Biogeography of Eastern Borderland in India: Evidence from Ectotherms	Junior Research Fellow <b>(01 no.)</b>	Three Years	Rs.31000 +HRA (as admissible) (for first 2 years) Rs.35000 +HRA (for 3 <sup>rd</sup> year subject to satisfactory performance)	<b>EQ:</b> Master's degree in Wildlife Biology / Zoology/ Molecular Biology/ Environmental Science/Life Sciences with 60% aggregate marks and above from a recognized university. <b>DQ:</b> 1. CSIR-JRF. UGC-NET cleared Candidates 2. Field Experience in Herpetological research and handling herpetofauna. 3. Keen desire to carryout fieldwork in remote Northeast India with minimum logistics.	
Wildlife Forensics and Conservation Genetics Cell	Forensic Researchers	Two Years	Rs.25,000 +HRA (as admissible)	<b>EQ-</b> M.Sc. in Biotechnology/Genetics/Animal Genetics/ Life Sciences from recognized university with 60% aggregate marks and above.	Selected candidate will need to assist the Project Investigator in the lab for the analysis of wildlife crime cases and undertake the other related assigned task.

Name of Project	Position and No.	Duration	Fellowship	E.Q./D.Q.	Description of work
	(01 no.)			<b>DQ-</b> Candidate with the experience of working in a genetics lab is desirable for this position. A candidate with CSIR/UGC fellowship would be preferred.	
	Research Associate-I (01 no.)	Two Years	Rs.47,000 +HRA (as admissible)	<b>EQ-</b> Ph.D. Degree in the field of Biotechnology/ Genetics/ Animal Genetics  <b>DQ-</b> Candidate with the experience of working in a genetics lab is desirable for this position.	Selected candidate will need to assist the Project Investigator in the lab for the analysis of wildlife crime cases and undertake the other related assigned task.
Status Survey and Genetic Study of eastern Hog Deer ( <i>Axis porcinus annamiticus</i> ) populations in northeast India	Junior Research Fellow-  (Genetics Component) (01 no.)	Three Years	Rs.31,000 + HRA (as admissible)	<b>EQ-</b> M.Sc. in Biotechnology/Genetics/Animal Genetics/ Life Sciences from recognized university with 60% aggregate marks and above.  <b>DQ-</b> Candidate with the experience of working in a genetics lab is desirable for this position. A candidate with CSIR/UGC fellowship would be preferred.	Selected candidate will need to visit the Northeast States (Assam/Manipur/ Tripura/Mizoram etc.) for the execution of the project and fieldwork and will need to perform the genetic experiment of the project and other project related assigned task.
	Junior Research Fellow-  Ecology Component (01 no.)	Three Years	Rs.31000 +HRA (as admissible)	<b>EQ-</b> M.Sc. in Zoology/ Life Sciences from recognized university with 60% aggregate marks and above.  <b>DQ-</b> Candidate with the experience of working in an animal ecological study related project is desirable for this position. A candidate from Manipur/Tripura/Mizoram state will be preferred. A candidate with CSIR/UGC fellowship would be given preference.	Selected candidate will need to visit the Northeast States (Assam/Manipur/ Tripura/Mizoram etc.) for the execution of the project and fieldwork and other project related assigned task.
Promoting community participation in conservation and conflict resolution in the fringe villages of Kaziranga Tiger Reserve through Eco development.	Project Fellow  (Human dimension) (02 nos.)	Three years	Rs.25000 +HRA (as admissible)	<b>EQ:</b> Masters' Degree in Wildlife Science/ Forestry/ Life Science/ Environmental Sciences or management/ Ecology, Environment and Sustainable Development/ Political sciences/ Statistics/ Anthropology/ Sociology/ Social Science/ Economics or related subjects from a recognized university and minimum one year work experience in similar field.	The study involves in examining the patterns of interaction between the local communities and the protected areas with reference to resource dependency and human wildlife conflict so as to develop site-specific strategies for aligning local peoples' livelihood with conservation priorities of Kaziranga Tiger Reserve.

Name of Project	Position and No.	Duration	Fellowship	E.Q./D.Q.	Description of work
				<p><b>DQ:</b> &gt;1 year experience of working on community participation in natural resource management, protected area – people interface, socioeconomic surveys or any aspects of human dimension in wildlife conservation.</p>	
<p>Connecting the dots: finding dispersal corridors for tiger in Kaziranga – Karbi Anglong landscape.</p>	<p>Project Fellow (Ecology) <b>(02 nos.)</b></p>	<p>Four years</p>	<p>Rs.25000 +HRA (as admissible)</p>	<p><b>EQ:</b> Masters' Degree in Wildlife Science/ Botany/ Zoology/ Forestry/ Life Science/ Environmental Sciences or management/ Biodiversity conservation from a recognized university and minimum one year work experience in similar field.</p> <p><b>DQ:</b> &gt;1 year experience of wildlife surveys, camera trapping, habitat assessment.</p>	<p>Work on the corridor ecology in Kaziranga - Karbi Anglong Landscape and Identify critical points along the corridors with high probability of negative human-wildlife interaction for developing conservation strategy for tiger in Northeast India.</p>
	<p>Project Fellow (Spatial analyst) <b>(01 no.)</b></p>	<p>Four Years</p>	<p>Rs.25000 +HRA (as admissible)</p>	<p><b>EQ:</b> Master's degree in Wildlife Sciences/ Environmental Science or management / Geo-informatics / M.Tech. in Remote Sensing &amp; GIS or related subjects from a recognized university and minimum one year work experience in similar field.</p> <p><b>DQ:</b> Experience of working on application of GIS and Remote Sensing technology in the assessment of wildlife habitat.</p>	<p>Work on the corridor ecology in Kaziranga - Karbi Anglong Landscape and delineate possible corridors linking Kaziranga Tiger Reserve with surrounding landscape and examine the functionality of these corridors through fieldwork and spatial analysis.</p>
	<p>Project Fellow (Conservation genetics) <b>(01 no.)</b></p>	<p>Four Years</p>	<p>Rs.25000 +HRA (as admissible)</p>	<p><b>EQ:</b> Masters' Degree in Wildlife Science/ Zoology/ Life Science/ Biotechnology/ Environmental Sciences or management from a recognized university and minimum one year work experience in similar field.</p> <p><b>DQ:</b> &gt;1 year experience of working on the population genetics of large mammals using various molecular markers, having experience of handling microsatellite markers and large genomes.</p>	<p>Examine the pattern of gene flow among large mammals in Kaziranga - Karbi Anglong Landscape.</p>

Name of the Project	Position and No.	Duration	Fellowship	EQ/DQ	Description of Work
Long term monitoring of tigers, co-predators and prey in tigers' reserves and other tiger bearing areas of Vidarbha, Maharashtra	JRF Ecology (07)	Five Years	Rs 31000 +HRA (As admissible)	<p><b>EQ:</b> Masters' Degree in Wildlife Science/ Botany/ Zoology/ Forestry/ Life Science/ Agriculture/ Environmental Sciences with a minimum of 60% aggregate marks from a recognized University.</p> <p><b>DQ:</b> Candidate(s) with prior experience in sampling design and animal abundance estimation are preferred. Prior experience of sampling using camera trapping, distance sampling and radio-telemetry. Knowledge of GIS and GPS is desirable. Should be able to undertake arduous field work under rigorous conditions.</p>	The work involves field monitoring of tiger, co-predators and their prey with techniques such as camera-trapping, distance sampling and radio-telemetry in TATR, Pench TR, NNTR, Melghat TR, Bor TR, Umred WLS and Tippeshwar WLS. The objectives of this study include demographic trends of carnivores and prey species, dispersal and movement ecology of tigers.
	JRF Statistics (01)	Five Years	Rs 31000 +HRA (As admissible)	<p><b>EQ:</b> Masters' Degree in Mathematics/ Statistics with a minimum of 60% aggregate marks from a recognized University.</p> <p><b>DQ:</b> Candidate(s) with prior experience in analysing biological and/or field observation data are preferred. Knowledge of R program is desirable.</p>	The work involves analysis of the data originating from camera-trapping, distance sampling and radio-telemetry. Developing methods for analysis of population and movement data would be involved. Candidate will have to work with a multi-disciplinary team of ecologists and sociologist.
	SRF Ecology (01)	Five Years	Rs 35000 +HRA (As admissible)	<p><b>EQ:</b> Masters' Degree in Wildlife Science/ Botany/ Zoology/ Forestry/ Life Science/ Agriculture/ Environmental Sciences with a minimum of 60% aggregate marks from a recognized University.</p> <p>Minimum two years of research experience after Masters' degree is required.</p>	The work involves field monitoring of tiger, co-predators and their prey with techniques such as camera-trapping, distance sampling and radio-telemetry in TATR, Pench TR, NNTR, Melghat TR, Bor TR, Umred WLS and Tippeshwar WLS. The objectives of this study include demographic trends of carnivores and

Name of the Project	Position and No.	Duration	Fellowship	EQ/DQ	Description of Work
				<p><b>DQ:</b> Candidate(s) with prior experience in sampling design and animal abundance estimation are preferred. Prior experience of sampling using camera trapping, distance sampling and radio-telemetry. Knowledge of GIS and GPS is desirable. Should be able to undertake arduous field work under rigorous conditions. Publications in peer-reviewed journals in relevant field is desirable.</p>	<p>prey species, dispersal and movement ecology of tigers.</p>
	SRF Statistics (01)	Five Years	Rs 35000 +HRA (As admissible)	<p><b>EQ:</b> Masters' Degree in Mathematics/ Statistics with a minimum of 60% aggregate marks from a recognized University.</p> <p>Minimum two years of research experience after Masters' degree is required.</p> <p><b>DQ:</b> Candidate(s) with prior experience in analysing biological and/or field observation data are preferred. Knowledge of R program is desirable. Publications in peer-reviewed journals in relevant field is desirable.</p>	<p>The work involves analysis of the data originating from camera-trapping, distance sampling and radio-telemetry. Developing methods for analysis of population and movement data would be involved. Candidate will have to work with a multi-disciplinary team of ecologists and sociologist.</p>
Dholes in Navegaon – Nagzira Tiger Reserve: An ecological perspective	JRF Ecology (01)	Five Years	Rs 31000 +HRA (As admissible)	<p><b>EQ:</b> Masters' Degree in Wildlife Science/ Botany/ Zoology/ Forestry/ Life Science/ Agriculture/ Environmental Sciences with a minimum of 60% aggregate marks from a recognized University.</p> <p><b>DQ:</b> Candidate(s) with prior experience in sampling design and animal abundance estimation are preferred. Prior experience of sampling using camera trapping, distance sampling and radio-telemetry. Knowledge of</p>	<p>The work involves field monitoring of dhole, tiger and their prey with techniques such as camera-trapping, distance sampling and radio-telemetry in NNTR. The candidate will be studying interaction of dholes and tigers with respect to their niche partitioning (food, space and time)</p>



Name of the Project	Position and No.	Duration	Fellowship	EQ/DQ	Description of Work
				GIS and GPS is desirable. Should be able to undertake arduous field work under rigorous conditions.	
Understand Ecology of Ratel in Melghat Tiger Reserve	JRF Ecology (01)	Five Years	Rs 31000 +HRA (As admissible)	<p><b>EQ:</b> Masters' Degree in Wildlife Science/ Botany/ Zoology/ Forestry/ Life Science/ Agriculture/ Environmental Sciences with a minimum of 60% aggregate marks from a recognized University.</p> <p><b>DQ:</b> Candidate(s) with prior experience in sampling design and animal abundance estimation are preferred. Prior experience of sampling using camera trapping, distance sampling and radio-telemetry. Knowledge of GIS and GPS is desirable. Should be able to undertake arduous field work under rigorous conditions.</p>	Ratel is one of the most illusive species. The ecology of the ratel in unknown in India and this project will be the first scientific study to understand their space use, movement, activity and diet in Melghat TR.
Understanding Large Carnivore Conflict Issues in Maharashtra for Suggesting Conflict Reduction Measures	JRF Ecology (01)	Five Years	Rs 31000 +HRA (As admissible)	<p><b>EQ:</b> Masters' Degree in Wildlife Science/ Botany/ Zoology/ Forestry/ Life Science/ Agriculture/ Environmental Sciences with a minimum of 60% aggregate marks from a recognized University.</p> <p><b>DQ:</b> Candidate(s) with prior experience in sampling design and animal abundance estimation are preferred. Prior experience of sampling using camera trapping, distance sampling and radio-telemetry. Knowledge of GIS and GPS is desirable. Should be able to undertake arduous field work under rigorous conditions.</p>	The work involves field sampling to assess the present status of large carnivores and prey in Pandharkawda, Bramhapuri, Nagpur, Bhandara and Gondia, Jalgaon/Yaval and Chadrapur Forest Divisions.

Name of the Project	Position and No.	Duration	Fellowship	EQ/DQ	Description of Work
	JRF Sociology (01)	Five Years	Rs 31000 +HRA (As admissible)	<p><b>EQ:</b> Masters' Degree in Social Sciences or related subjects with a minimum of 60% aggregate marks from a recognized University.</p> <p><b>DQ:</b> Candidate(s) with prior experience in designing, conducting and analysing socio-economic surveys are preferred. Experience of working in conservation field would be preferred. Should be able to undertake arduous field work under rigorous conditions.</p>	The work involves developing village-level database of human, livestock populations along with conflict information. The project aims to find threshold values of human population, road density and habitat transformation parameters for coexistence with humans for the different large carnivore species. Evaluating effectiveness and applicability of mitigation measures is part of the project.
Establishment of a web portal for dissemination of research findings as a decision support system for policy makers and wildlife managers in Maharashtra	Web-GIS Developer (01)	Five Years	Rs. 40,000 (Consolidated)	<p><b>EQ:</b> B. Tech or equivalent degree in Computer Science/ Programming or relevant field with a minimum of 60% aggregate marks from a recognized University. Candidate should have experience in working with ArcGIS JavaScript API and server management.</p> <p><b>DQ:</b> Candidate(s) with prior experience in programming with presentable outputs such as development of API, portals, servers and programming language packages will be preferred. Knowledge of python/ C#/ php/ R integration/ SQL/ Web services/ WCF services/ IIS and other aspects of web-technologies is preferred.</p>	Web portal is planned as a dynamic database hosted on ArcGIS server. The candidate will need to design and develop Web-GIS apps to host GIS layers and services.
Understanding Movement and Genetic Connectivity of Sloth Bears in Central Indian Landscape	JRF Ecology (01)	Three Years	Rs 31000 +HRA (As admissible)	<p><b>EQ:</b> Masters' Degree in Wildlife Science/ Botany/ Zoology/ Forestry/ Life Science/ Agriculture/ Environmental Sciences with a</p>	The work involves field monitoring of sloth bears and study their movement pattern, space and habitat use in TATR. Project also involves studying interaction of sloth

Name of the Project	Position and No.	Duration	Fellowship	EQ/DQ	Description of Work
				<p>minimum of 60% aggregate marks from a recognized University.</p> <p><b>DQ:</b> Candidate(s) with prior experience in sampling design and animal abundance estimation are preferred. Prior experience of sampling using camera trapping, distance sampling and radio-telemetry. Knowledge of GIS and GPS is desirable. Should be able to undertake arduous field work under rigorous conditions.</p>	bear with sympatric carnivores and genetic connectivity at landscape level.
<b>Total</b>	<b>39</b>				

### Syllabus for online Test;

#### JRF/ SRF Ecology

Biogeography, structure and function of ecosystems, concepts of evolution, systematics of plant and animals, Forestry and natural resource conservation, Population ecology, Biostatistics, Quantitative Ecology, Habitat Ecology, Landscape ecology, Behavioural ecology, Community ecology, Conservation biology, Wildlife Management, Wildlife health, Conservation genetics, Human dimensions in wildlife management, Environmental Impact, Global warming and climate change, Coastal and marine wildlife.

(For details please check the syllabus of M.Sc. Wildlife Science at Wildlife Institute of India)

#### JRF/ SRF Statistics

Design of experiments, sampling methods, Probability distribution, Linear models, Bayesian statistics, Multivariate statistics, statistical programming

## **Sociology**

Environmental Economics, Social economics, Research design, Qualitative and quantitative analysis methods, Field Research Methods, Rural Livelihood, Environmental Impact Assessment, Scientific Methods and Epistemology in social science, environment laws and policies

## **Web-GIS developer**

Knowledge about cloud, database (Enterprise geodatabase, PostgreSQL), HTML5/ CSS/ PHP, ArcGIS JavaScript API, C#, ArcGIS Server, Python and Java, Web-GIS