



**CENTRE FOR AEROSPACE RESEARCH
MIT CAMPUS, ANNA UNIVERSITY
CHENNAI – 44**

☎ 22516343
E-mail: dircasr@annauniv.edu

Dr. K. Senthil Kumar
Professor & Director

Engagement of Project Staff (Temporary)

The Centre for Aerospace Research has undertaken a Project titled “**Design, Development and Prototype Testing of Advanced Desert/High Altitude Swarm Drones**” for a period of One Year. Eligible candidates should submit their CV’s on or before 23/06/2024 to the following address through post and the scanned copies of the application may be sent to the below mentioned E-mail id.

The Director, Centre for Aerospace Research
MIT Campus, Anna University,
Chennai – 600 044
E-mail: dircasr@annauniv.edu , casr1516@gmail.com

S. No	Designation	Qualification	Vacancy	Salary
1	Project scientist (Team Lead - Hardware and Testing)	Education: Ph.D. Avionics / Aerospace/ Electrical & Electronics / Instrumentation / Communication engineering / Equivalent Or M.E/MS (Engg) Avionics / Aerospace/ Electrical & Electronics / Instrumentation / Communication engineering / Equivalent with 4+ Years’ Experience in UAV field Essential Qualification: <ul style="list-style-type: none">➤ Knowledge in UAV Control System, Navigation and Guidance.➤ Must have experience in UAV Integration of all categories including VTHT, VTOL, Fixed Wing.➤ Must have experience in UAV Flying Must have experience in integrating and Flying Swarm UAV.➤ Ability to identify and troubleshoot both hardware and software of the UAV Systems.➤ Must have wide Knowledge about the Current UAV Technologies.➤ Must have knowledge and Experience in GCS (Ground Control Station) Operations.➤ Must have Knowledge and Experience in Various Payload Identification and Integration.➤ Must have Knowledge and Experience in UAV Power System Optimization.	1	Rs.1,00,000



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		<ul style="list-style-type: none"> ➤ Have to be flexible with Timings and Various Field Conditions. ➤ Able to Adapt and Lead the Team under Various Circumstances. <p>Desired Qualification</p> <ul style="list-style-type: none"> ➤ Should have previous experience in Swarm Drone Projects ➤ Should have knowledge on Swarm Drone communication systems / Mesh Network. 		
2	Project scientist (Team Lead - Simulation and Software)	<p>Education: Ph.D. Avionics/ Aerospace/ Electrical & Electronics / Instrumentation Communication engineering / Equivalent</p> <p>Or</p> <p>M.E/MS (Engg) Avionics/ Aerospace/ Electrical & Electronics / Instrumentation / Communication engineering / Equivalent with 4+ Years' Experience in UAV field.</p> <p>Essential Qualification:</p> <ul style="list-style-type: none"> ➤ Knowledge in UAV Simulation ➤ Must have experience in UAV algorithm development. ➤ Must have experience in UAV GCS software development. ➤ Should have programming knowledge. ➤ Must have wide Knowledge about the Current UAV Technologies. ➤ Must have knowledge on various UAV Payloads. ➤ Must have experience in preparing technical reports. ➤ Must have Knowledge on Swarm Drone Architecture. ➤ Have to be flexible with Timings and Various Field Conditions. ➤ Able to Adapt and Lead the Team under Various Circumstances. <p>Desired Qualification</p> <ul style="list-style-type: none"> ➤ Should have previous experience in Swarm Drone Projects 	1	Rs.1,00,000



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3	Project Associate II (AI Engineer)	<p>Education: M.E/MS (Engg) Navigation /Avionics / Aerospace/ Electrical / Electronics / Communication engineering / Equivalent with 2+ years' experience</p> <p>Or</p> <p>BE EEE/ECE/Communication/CSE/Aero/Navigation / Equivalent with 4+ years' experience.</p> <p>Essential Qualification:</p> <ul style="list-style-type: none">➤ Knowledge in UAV Simulation➤ Must have experience in UAV algorithm development.➤ Must have experience in AI model Development.➤ Should have programming knowledge.➤ Must have wide Knowledge about the Current UAV Technologies.➤ Must have knowledge on various UAV Payloads.➤ Must have experience in Machine Learning.➤ Must have Knowledge on Swarm Drone Architecture.➤ Have to be flexible with Timings and Various Field Conditions.	2	Rs.60,000
4	Project Associate II (UAV System Engineer)	<p>Education: M.E/MS (Engg) Navigation /Avionics / Aerospace/ Electrical / Electronics / Communication engineering / Equivalent with 2+ years' experience</p> <p>Or</p> <p>BE EEE/ECE/Communication/CSE/Aero/Navigation / Equivalent with 4+ years' experience.</p> <p>Essential Qualification:</p> <ul style="list-style-type: none">➤ Must Have Vast Knowledge and Experience in UAV Control Systems.➤ Must have wide Knowledge about the Current UAV Technologies.➤ Must have Keen Knowledge about UAV Navigation, Guidance and Control➤ Must Have Wide Knowledge about UAV Communication Systems.	1	Rs.60,000



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		<ul style="list-style-type: none"> ➤ Knowledge and Experience in UAV Operation Field co-ordination ➤ Should have Knowledge in UAV avionics and Communication systems ➤ Have to be flexible with Timings and Various Field Conditions. 		
5	Project Associate II (Design Engineer)	<p>Education: ME/MS (Engg) Aerospace /Aerospace Structures / Aeronautical / Mechanical / CAD-CAM / Equivalent with 2+ years' experience</p> <p>Or</p> <p>BE Aerospace /Aerospace Structures / Aeronautical / Mechanical / CAD-CAM / Equivalent with 4+ Years' Experience</p> <p>Essential Qualification:</p> <ul style="list-style-type: none"> ➤ Must Have Vast Knowledge in UAV Structures. ➤ Must Have Knowledge and Experience in UAV Fabrications. ➤ Must Have Knowledge and Experience in analysis Tools. ➤ Must Have Knowledge and Experience in Design Software's. ➤ Knowledge in UAV Flying. ➤ Knowledge in 3D Printing, CNC Machining and Foam cutting. ➤ Must Have Knowledge and in UAV Payload bay Design and Fabrication. ➤ Have to be flexible with Timings and Various Field Conditions. 	1	Rs.60,000
6	Project Associate II (Test Pilot)	<p>Education: ME/MS (Engg) Aerospace /Aerospace Structures / Aeronautical / Mechanical / CAD-CAM / Equivalent 2+ years' experience</p> <p>Or</p> <p>BE Aerospace /Aerospace Structures / Aeronautical / Mechanical / CAD-CAM / Equivalent with 4+ Years' Experience</p> <p>Essential Qualification:</p> <ul style="list-style-type: none"> ➤ Must have experience in UAV Flying in 	1	Rs.60,000



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		<p>Rotorcraft, Fixed Wing and VTOL Fixed Wing</p> <ul style="list-style-type: none"> ➤ Ability to identify and troubleshoot both hardware and software of the UAV Systems. ➤ Must have wide Knowledge about the Current UAV Technologies. ➤ Must have knowledge and Experience in GCS (Ground Control Station) Operations. ➤ Must have Knowledge and Experience in Various Payload Identification and Integration. ➤ Must have Knowledge and Experience in UAV Power System Optimization. ➤ Have to be flexible with Timings and Various Field Conditions. <p>Desired Qualification:</p> <ul style="list-style-type: none"> ➤ Should possess DGCA certified RPC in Small and Medium Class Drones 		
7	Project Associate II (Structures Engineer)	<p>Education: ME/MS (Engg) Aerospace /Aerospace Structures / Aeronautical / Mechanical with 2+ Years' Experience</p> <p>Or</p> <p>BE Aerospace /Aerospace Structures / Aeronautical / Mechanical / CAD-CAM with 4+ Years' Experience</p> <p>Essential Qualification:</p> <ul style="list-style-type: none"> ➤ Must Have Vast Knowledge in Aerospace Structures. ➤ Must have knowledge and experience on documentation handling. ➤ Must Have Knowledge and Experience in Structural Testing and Analysis. ➤ Must Have Knowledge in analysis Tools. ➤ Must Have Knowledge in Design Software's. ➤ Knowledge in 3D Printing, CNC Machining and Foam cutting. ➤ Have to be flexible with Timings and Various Field Conditions. 	1	Rs.45,000
8	Project Associate I (Swarm Simulation Engineer)	<p>Education: B.E/BTech ECE/EEE/CSE/IT/Equivalent</p> <p>Essential Qualification:</p> <ul style="list-style-type: none"> ➤ Knowledge in System in the Loop Simulation 	2	Rs.35,000



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		<ul style="list-style-type: none"> ➤ Knowledge in Swarm Drone Algorithms. ➤ Knowledge in Swarm Drone Architecture ➤ Knowledge and Hands-on Experience in programming Languages like Python, C, etc. ➤ Knowledge in JavaScript and SQL. ➤ Have to be flexible with Timings and Various Field Conditions. 		
9	Project Associate I (GCS Software Engineer)	<p>Education: B.E/BTech ECE/EEE/CSE/IT/ Equivalent</p> <p>Essential Qualification:</p> <ul style="list-style-type: none"> ➤ Knowledge in GCS Software Development ➤ Knowledge and Experience in API development. ➤ Knowledge in Swarm Drone Algorithms. ➤ Knowledge in Swarm Drone Architecture ➤ Knowledge and Hands-on Experience in programming Languages like Python, C, etc. ➤ Knowledge in HTML, Java, and SQL. ➤ Have to be flexible with Timings and Various Field Conditions. 	2	Rs.35,000
10	Project Associate I (IOT Engineer)	<p>Education: B.E/BTech ECE/EEE/CSE/IT/ Equivalent</p> <p>Essential Qualification:</p> <ul style="list-style-type: none"> ➤ Knowledge in Image Processing Techniques for Object Identification ➤ Knowledge and Experience in AI development. ➤ Knowledge in Swarm Drone Algorithms. ➤ Knowledge in Swarm Drone Architecture ➤ Knowledge and Hands-on Experience in programming Languages like Python, C, etc. ➤ Knowledge in Machine Learning. ➤ Have to be flexible with Timings and Various Field Conditions. 	2	Rs.35,000
11	Project Associate I (Drone Pilot)	<p>Education: B.E / BTech Aero / Mechanical / ECE / EEE / Equivalent</p> <p>Essential Qualification:</p> <ul style="list-style-type: none"> ➤ Knowledge and Experience in Drone Flying ➤ Knowledge in assembling and troubleshooting the drone ➤ Knowledge in GCS Operation ➤ Knowledge and Experience in Drone 	1	Rs.35,000



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		Maintenance <ul style="list-style-type: none">➤ Should have valid DGCA certified RPC➤ Should have knowledge on recent UAV trends		
12	Project Associate I (Communication Engineer)	Education: B.E/BTech ECE/EEE/CSE/IT/ Equivalent with 2 years' Experience Or M.E/MS (Engg) Navigation /Avionics / Aerospace/ Electrical / Electronics / Communication engineering / Equivalent Essential Qualification: <ul style="list-style-type: none">➤ Knowledge and Experience in RF Communication➤ Knowledge in Digital Electronics➤ Knowledge in Drone Avionics Components➤ Knowledge in Swarm Drone Architecture➤ Knowledge in programming Arduino and Embedded Systems➤ Knowledge in UAV Flight Controllers➤ Have to be flexible with Timings and Various Field Conditions.	1	Rs.35,000
13	Project Associate I (Software Engineer)	Education: B.E/BTech ECE/EEE/CSE/IT/ Equivalent Essential Qualification: <ul style="list-style-type: none">➤ Knowledge in GCS Software Development➤ Knowledge in API development.➤ Knowledge in Swarm Drone Algorithms.➤ Knowledge in Swarm Drone Architecture➤ Knowledge in programming Languages like Python, C, etc.➤ Knowledge in Full Stack Development.➤ Have to be flexible with Timings and Various Field Conditions.	3	Rs.30,000
14	Project Associate I (Image Processing Engineer)	Education: B.E/BTech ECE/EEE/CSE/IT/ Equivalent Essential Qualification: <ul style="list-style-type: none">➤ Knowledge in Image Processing Techniques for Object Identification➤ Knowledge in AI and ML➤ Knowledge in Swarm Drone Algorithms.	1	Rs.30,000



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		<ul style="list-style-type: none">➤ Knowledge in Swarm Drone Architecture➤ Knowledge in programming Languages like Python, C, etc.➤ Have to be flexible with Timings and Various Field Conditions.		
15	Project Associate I (Electronics Engineer)	Education: B.E/BTech ECE/EEE/CSE/IT/ Equivalent Essential Qualification: <ul style="list-style-type: none">➤ Knowledge in IOT➤ Knowledge in Digital Electronics➤ Knowledge in Drone Avionics Components➤ Knowledge in Swarm Drone Architecture➤ Knowledge in programming Arduino and Embedded Systems➤ Have to be flexible with Timings and Various Field Conditions.	1	Rs.30,000
16	Project Technician	Education: Any Diploma/Degree Essential Qualification: <ul style="list-style-type: none">➤ Basic knowledge in UAV➤ Must have knowledge in basic computer operations and MS Office.➤ Have to Flexible with timings.➤ Should be physically and mentally sound to adapt with various field conditions.➤ Able to travel and assist with team in various field conditions.	5	Rs.20,000

Note:

- In spite of eligibly, the candidates with swarm Drone Knowledge / experience may also apply with the necessary documents and they may also be considered for the engagement in project.
- The above mentioned salary / remuneration were the tentative figures only it may vary based on the candidate's experience & knowledge



**ANNA UNIVERSITY CHENNAI
MIT CAMPUS**

**APPLICATION FOR THE POST OF _____
(Temporary)**

CENTRE FOR AEROSPACE RESEARCH

SI No:		Name of the Post applied for:				
1	Name (in Block Letters) with initial at the end	PHOTO				
2	Address for communication					
3	E-mail id, Mobile/Phone					
4	Nationality	Age	Date of Birth			
5	Educational Qualification(s)					
	Degree/Diploma/HSC/SSLC	Specialization	University/Institution	Year of Passing	CGPA/Percentage	
5a	Essential Qualification(s)					

6	Professional Experience(Teaching/Industry/Research)				
	Name of Institution	Designation	Period		Nature of Work
			From	To	
Total Experience in (YY/MM)		Teaching :		Industry:	
7	Additional Information in the field of Swarm UAV and Drones				
8	List of Enclosure(s)				

Declaration:

I declare that the information furnished above is true and correct to the best of my knowledge and belief, and that no related information is concealed. If any discrepancy is observed at any stage, **The Director, CASR will be free to cancel my selection/candidature.**

Place:

Signature of the Applicant

Date:

INSTRUCTIONS FOR FILLING UP THE APPLICATION FORM

(Application not submitted in proper format is likely to be rejected)

1. Application form should be neatly typed or handwritten in CAPITAL LETTERS.
2. Enclose attested photocopies of relevant certificates/proofs wherever necessary.