



**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