

Position: Junior Project Assistant
- Technical - Technical
PI: Cheruvu Siva Kumar
Department: Mechanical
Engineering
Ref
No.: IIT/SRIC/R/MVS/2022/103
Ref Date: 21-03-2023

Project Title: Development of Bio-Mimetic Autonomous Underwater Vehicles (BAUV) for Maritime Surveillance (Phase I)(MVS)

Sponsor: Naval Research Board (NRB)(Ministry of Defence, Govt. of India, Department of Defence Research and Development, New Delhi-110011)

Consolidated Compensation: Upto Rs.24000(depending upon qualification & experience)

Qualifications: B. Tech in Mechanical (systems, dynamics and control)/ Production (control and automation)/ Industrial (control and Automation)/ Aerospace Engineering (avionics/controls) /Electrical Engineering (Control Systems)/Instrumentation/Mechatronics (or Robotics) / Ocean Engineering and Naval Architecture (Control of ships/underwater vehicles/systems). The candidates should have good academic track record with all through first class and at least 60% marks in B.E./ B.Tech. degrees.

Relevant Experience: Desired Experience : One of the aims of the project is to design and develop control systems with controller for motion control of a autonomous robotic fish (BAUV). Towards this a working knowledge of dynamics, control and robotics is a plus. Good background in systems modelling, mechatronics, working with microcontrollers, embedded systems is preferred. Candidates with 2 or more years experience or a masters degree in any areas suitable for the project will be given preference.

Application Fees: Rs.100/=(Not for female candidates)

Age Limit: 25

Position: Senior Research
Fellowship - Research
PI: Cheruvu Siva Kumar
Department: Mechanical
Engineering
Ref
No.: IIT/SRIC/R/MVS/2022/111
Ref Date: 21-03-2023

Project Title: Development of Bio-Mimetic Autonomous Underwater Vehicles (BAUV) for Maritime Surveillance (Phase I)(MVS)

Sponsor: Naval Research Board (NRB)(Ministry of Defence, Govt. of India, Department of Defence Research and Development, New Delhi-110011)

Consolidated Compensation: Upto Rs.35000(depending upon qualification & experience)

Qualifications: 1. B. Tech in Mechanical Engineering (Mechanical Systems, Design, Dynamics, Control) /Electrical(Control Systems)/Instrumentation Engineering (or Electronics with control Systems/ embedded control) / with Robotics or Mechatronics specialisation/ Ocean Engineering and Naval Architecture (Ship Dynamics and control)/ Aerospace Engineering (Avionics, Control Systems) / with valid GATE/NET score or CGPA > 8.0 from IITs with eligibility for PhD. OR M. Tech in Mechanical Engineering (Design, Dynamics and Control Systems) / Electrical (Control Systems) / Instrumentation Ocean Engineering and Naval Architecture/ Mechatronics/ Aerospace Engineering/ Robotics (and specialisations equivalent to the details above).
2. Two (2) years research experience

Relevant Experience: One of the aims of the project is to design and develop control systems with controller for motion control of a autonomous robotic fish (BAUV).

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Towards this a good working knowledge of dynamics, control and robotics is a plus. M.Tech. in Ocean Engineering/ Mechanical Engg./ Electronics/ Mechatronics/ Embedded systems or related areas mentioned in essential qualifications with supporting working knowledge for such robotics activity is desirable. Good background in systems modelling, multibody dynamics, working with microcontrollers, embedded systems is desired. Strong working knowledge of Matlab, computer programming, modelling and simulation software is desired and will be given preference.

Application Fees: NIL

Age Limit: Upper age limit is 32 years. Relaxable upto 5 years in the case of SC/ST/OBC/Physically Handicapped / Visually Handicapped and female applicant.

Project Title: Development of Bio-Mimetic Autonomous Underwater Vehicles (BAUV) for Maritime Surveillance (Phase I)(MVS)

Sponsor: Naval Research Board (NRB)(Ministry of Defence, Govt. of India, Department of Defence Research and Development, New Delhi-110011)

Consolidated Compensation: Upto Rs.28000(depending upon qualification & experience)

Qualifications: BE/B.Tech in Electronics and Communication/Instrumentation with 3 years experience in research.

Relevant Experience: One of the aims of the project is to design and develop motion control systems for Biomimetic autonomous underwater vehicle. Towards this a working knowledge of dynamics, control and robotics is a plus. Good background in systems modelling using CAD software, mechatronics, working with microcontrollers and PCB designing, embedded systems is preferred. Good knowledge in Automation using PLC and graphical programming languages like Labview is required.

Application Fees: Rs.100/=(Not for female candidates)

Age Limit: 31

Project Title: Development of Bio-Mimetic Autonomous Underwater Vehicles (BAUV) for Maritime Surveillance (Phase I)(MVS)

Sponsor: Naval Research Board (NRB)(Ministry of Defence, Govt. of India, Department of Defence Research and Development, New Delhi-110011)

Consolidated Compensation: Upto Rs.31000(depending upon qualification & experience)

Qualifications: B. Tech. in Ocean Engineering and Naval Architecture/ Mechanical and M. Tech in Ocean Engineering and Naval Architecture/ Mechanical (Design, Dynamics, Fluid Mechanics, Mechatronics, Robotics)/Underwater Robotics/equivalent areas. Applicant must have a qualified GATE score. The candidates should have good academic track record with all through first class and at least 60% marks in B.E./ B.Tech. and M.E./ M.Tech./MS degrees.

Relevant Experience: The project will aim to develop two BAUV units of test bed prototype size and subject them to

Position: Senior Project Assistant
- Technical - Technical

PI: Cheruvu Siva Kumar

Department: Ocean Engg and
Naval Architecture

Ref

No.: IIT/SRIC/R/MVS/2023/115

Ref Date: 21-03-2023

Position: Junior Research
Fellowship - Research

PI: Cheruvu Siva Kumar

Department: Ocean Engg and
Naval Architecture

Ref

No.: IIT/SRIC/R/MVS/2023/116

Ref Date: 21-03-2023

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detailed study to acquire the know how required to take it to the product level. These prototypes will be studied extensively in laboratory conditions to understand and evaluate their performance in various aspects, improve and fine tune them to take to the next phase. Good background in fluid mechanics, CFD and hydrodynamics is desired. Any experience with system building and hardware will be useful. Strong working knowledge of CAD-CAM, Matlab and CFD software is essential. Experience in projects involving fabrication of models, experimental and CFD related work in industry and academic research will be given preference.

Application Fees: Rs.(NOT FOR FEMALE CANDIDATES)/=(Not for female candidates)

Age Limit: Upper age limit is 28 years. Relaxable upto 5 years in the case of SC/ST/OBC/Physically Handicapped / Visually Handicapped and female applicant.

Project Title: Multimodal Secure Access Mechanism for Group Enabled Cyber Systems in Defence Organization(AGO)

Sponsor: DRDO-JCBCAT(Government of India, Ministry of Defense, DRDO HQ, Directorate of FTM, Room no. 323, 3rd floor, DRDO Bhawan, Rajaji Marg, New Delhi - 110 011)

Consolidated Compensation: Upto Rs.35000(dependent upon qualification & experience)

Qualifications: BE/B.Tech. in CSE/IT/ECE/EE with 70% Marks (or 7.5/10 CGPA) in all qualified examinations, GATE Qualification, and minimum two years of research experience. OR ME/M.Tech. in CSE/IT/EE/ECE with 70% marks (or 7.5/10 CGPA) in all qualified examinations and minimum two years of research experience.

Relevant Experience: Programming skill in C/Python and knowledge of Machine Learning, Deep Learning, Security, Cryptography, Biometric Security.

Application Fees: NIL

Age Limit: Upper age limit is 32 years. Relaxable upto 5 years in the case of SC/ST/OBC/Physically Handicapped / Visually Handicapped and female applicant.

Project Title: Community-based Intervention to address Antibiotic Resistance: An embedded mixed-methods interventional study(BAM)

Sponsor: INDIAN COUNCIL OF MEDICAL RESEARCH (ICMR)(V.RAMALINGASWAMI BHAWAN,ANSARI NAGAR, POST BOX - 4911,NEW DELHI - 110 029)

Consolidated Compensation: Upto Rs.31000(dependent upon qualification & experience)

Qualifications: Graduate in Science with 3 years experience OR Masters degree in Relevant discipline

Relevant Experience: Masters degree in Microbiology or Public Health will be preferred

Application Fees: Rs.100/=(Not for female candidates)

Age Limit: 30

Position: Senior Research Fellowship - Research

PI: Debasis Samanta

Department: Computer Science and Engineering

Ref

No.: IIT/SRIC/R/AGO/2023/114

Ref Date: 21-03-2023

Position: Research Assistant

PI: Arista Lahiri

Department: Dr B C Roy Multi Speciality Medical Research Centre

Ref

No.: IIT/SRIC/R/BAM/2023/103

Ref Date: 21-03-2023

Position: Senior Research Fellowship - Research

Project Title: Development of customized implants via powder metallurgy process(DVP)

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PI: Santanu Dhara
Department: School of Medical
Science and Technology
Ref
No.: IIT/SRIC/R/DVP/2023/102
Ref Date: 03-03-2023

Sponsor: Science and Engineering Research Board (SERB) 2023
(Department of Science and Technology, 5 and 5A, Lower
Ground Floor, Vasant Square Mall, Plot No. A, Community
Centre, Sector - B, Pocket-5 Vasant Kunj, New Delhi - 110
070)

Consolidated Compensation: Upto Rs.35000(depending
upon qualification & experience)

Qualifications: 1. M. Tech OR M.Sc with valid NET or
GATE 2. Two years of research experience for both cases

Relevant Experience: Two years of reserach experience in
relevant area of Powder Metallurgy, Fabrication, Casting,
CAD/CAM technology

Application Fees: NIL

Age Limit: Upper age limit is 32 years. Relaxable upto 5
years in the case of SC/ST/OBC/Physically Handicapped /
Visually Handicapped and female applicant.