

Position: Project Assistant - Technical

PI: Siddharth Tamang

Department: Mechanical Engineering

Ref

No.: IIT/SRIC/R/ASC/2024/101

Ref Date: 05-06-2024

Project Title: Manufacturing of Bimetallic Ti - Al alloy structure by CMT-WAAM(ASC)

Sponsor: Science and Engineering Research Board (SERB) (3rd and 4th Floor, Block II, Technology Bhavan, New Mehrauli Road, New Delhi 110016)

Consolidated Compensation: Upto Rs.20000(depending upon qualification & experience)

Qualifications: Diploma (3 yrs) / B.Tech in the discipline of Mechanical Engineering / Manufacturing / Production Engineering / Materials Science & Metallurgical Engineering

Relevant Experience: Experience in laboratory handling, maintenance, mechanical testing and mechanical machines (lathe, milling, welding, material handling, etc.)

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

Age Limit: 35

Tenure: 36 Months or the termination of the project, whichever is earlier.

Project Title: Formation of Double Percolated Conductive Networks (DPCN) and Segregated Structure with Ultra-low Carbon Nanostructure Filler Content in Thermoplastic Elastomers Vulcanizates (TPVs) with Improved Electrical Conductivity and Enhanced Electromagnetic Interference (EMI) Shielding Effectiveness(CLT)

Sponsor: Science and Engineering Research Board (SERB) (3rd and 4th Floor, Block II, Technology Bhavan, New Mehrauli Road, New Delhi 110016)

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

Qualifications: Essential Qualification : (1) BE / B Tech Degree or PG Degree in Basic Sciences with valid GATE/NET Score and 2 years of Research Experience (2) ME / M Tech Degree in Rubber / Plastics / Materials Science / Chemistry / Applied Chemistry / Textile / Chemical Engineering with GATE Qualification.

Relevant Experience: Experience in Polymer/Materials/Chemical/Plastics/Rubber or allied areas.

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.

Tenure: 24 Months or the termination of the project, whichever is earlier.

Position: Senior Research Fellowship - Research

PI: Narayan Chandra Das

Department: Rubber Technology

Ref

No.: IIT/SRIC/R/CLT/2024/106

Ref Date: 05-06-2024

Project Title: Development of a Predictive Analytics Cloud Platform for EV Batteries Connected over AI Enabled 5G Wireless Telecom Network (EV_WiNet)(CPG)

Sponsor: IIT KHARAGPUR AI4ICPS I HUB FOUNDATION(IIT KHARAGPUR CAMPUS, DIST. PASCHIM MEDINIPUR, KHARAGPUR, Paschim Medinipur, West Bengal, 721302)

Consolidated Compensation: Upto Rs.67700(depending upon qualification & experience)

Qualifications: Ph.D. in areas of EE, EC, IN or similar equivalent and relevant disciplines with first class or equivalent at the preceding degree. Or M.Tech in EE, EC, IN or similar

Position: Senior Project Engineer - Research

PI: Siddhartha Mukhopadhyay

Department: Centre of Excellence in Advanced Transportation

Ref

No.: IIT/SRIC/R/CPG/2024/101

Ref Date: 05-06-2024

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equivalent and relevant disciplines, with 1st class or equivalent with 4 years' post-MTech, relevant R&D or technical experience Or B.Tech in EE, EC, IN or similar equivalent and relevant disciplines, with 1st class or equivalent with 6 years' post-B.Tech relevant R&D or technical experience

Relevant Experience: A) Experience in Embedded System, Edge computing, Python, Embedded C++, TinyML, TensorFlow, PiTorch, FreeRTOS etc. B) Experience of implementing industrial applications using the above tools. C) Knowledge in the field of AI/ML with experience in advanced machine learning methods such as Federated Learning, Deep Learning etc. D) Experience with Electric Transportation applications

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

Age Limit: 38

Tenure: 24 Months or the termination of the project, whichever is earlier.

Project Title: Designing Superhydrophobic Surface by using Specialty Polymer Emulsion(DSP)

Sponsor: ASIAN PAINTS LTD. MUMBAI(Asian Paints Limited 6A Shantinagar, Santa Cruz (East), Mumbai - 400 055)

Consolidated Compensation: Upto Rs.37000(dependent upon qualification & experience)

Qualifications: M.Tech. (Polymer Science & Engineering/ Rubber Technology) OR M.Sc. (Chemistry/Polymer Science) with valid NET/GATE Score.

Relevant Experience: The candidate should have good academic record. The candidate should be well-versed in writing the scientific documents and reports

Application Fees: NIL

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.

Tenure: 24 Months or the termination of the project, whichever is earlier.

Project Title: Design and analysis of circular polarized DRA configurations using non planar waveguide feed(DUN)

Sponsor: Science and Engineering Research Board (SERB) (3rd and 4th Floor, Block II, Technology Bhavan, New Mehrauli Road, New Delhi 110016)

Consolidated Compensation: Upto Rs.42000(dependent upon qualification & experience)

Qualifications: (i)ME/M.Tech in RF & Microwave Engineering or ME/M.Tech in Electronics & Communication Engineering. (ii) 4 years experience in Research and Development in Industrial and Academic Institutions or Science and Technology Organizations and Scientific activities and services.

Relevant Experience: Good knowledge in simulation software like HFSS,CST, etc

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

Age Limit: 40

Tenure: 36 Months or the termination of the project, whichever is earlier.

Position: Junior Research Fellowship - Research

PI: Nikhil Kumar Singha

Department: Rubber Technology

Ref

No.: IIT/SRIC/R/DSP/2024/101

Ref Date: 05-06-2024

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Position: Senior Project Associate - Research

PI: Bratin Ghosh

Department: Electronics and Electrical Communication Engg.

Ref

No.: IIT/SRIC/R/DUN/2024/101

Ref Date: 05-06-2024

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Position: Senior Research Assistant - Research

PI: Sourav Mondal

Department: Chemical Engineering

Ref

No.: IIT/SRIC/R/FMW/2024/101

Ref Date: 05-06-2024

Project Title: CFD study of the formation of mid-web anomalies in the solid propellant grain during casting(FMW)

Sponsor: ISRO, IIT KHARAGPUR CELL(Space Technology Cell,IIT Kharagpur - 721 302, West Bengal,India.)

Consolidated Compensation: Upto Rs.35400(dependent upon qualification & experience)

Qualifications: M.Sc in Mathematics with 3 years experience in relevant field

Relevant Experience:

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

Age Limit: 35

Tenure: 20 Months or the termination of the project, whichever is earlier.

Project Title: Fault Exclusion Algorithm for A Kalman Filter Based GPS NavIC Integrity Monitor(FNI)

Sponsor: ISRO, IIT KHARAGPUR CELL(Space Technology Cell,IIT Kharagpur - 721 302, West Bengal,India.)

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

Qualifications: Candidate should hold an MTech/MS degree in Computer Science/Electrical Engineering/Electronics Engineering, or in Aerospace Engineering with specialization in signal processing; must have secured at least 65% marks throughout starting from class 10, or at least 65% marks till 10+2 and 7/10 CGPA afterwards.

Relevant Experience: Good knowledge of Matlab, C/C++ and Embedded coding is required. Candidate should be willing to help in doing experiments, and data collection and processing. He/she should be comfortable writing code in Matlab, C/C++ and on Embedded platform.

Application Fees: NIL

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.

Tenure: 30 Months or the termination of the project, whichever is earlier.

Project Title: All solid high performance polymer-based separators for Li ion and Li metal batteries(HPE)

Sponsor: Science and Engineering Research Board (SERB) (3rd and 4th Floor, Block II, Technology Bhavan, New Mehrauli Road, New Delhi 110016)

Consolidated Compensation: Upto Rs.37000(dependent upon qualification & experience)

Qualifications: 1. M.Sc. in Chemistry (Organic/Physical/Inorganic specialization), Or B.Tech. in Ceramics or Chemical Engineering Or M. Sc. in Materials Science 2. Valid GATE /NET Score

Relevant Experience: 1. Experience in organic synthesis /electrochemistry/electro ceramics is preferred

Application Fees: NIL

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Position: Junior Research Fellowship - Research

PI: Susmita Bhattacharyya

Department: Aerospace Engineering

Ref

No.: IIT/SRIC/R/FNI/2024/102

Ref Date: 05-06-2024

Qualifications: Candidate should hold an MTech/MS degree in Computer Science/Electrical Engineering/Electronics Engineering, or in Aerospace Engineering with specialization in signal processing; must have secured at least 65% marks throughout starting from class 10, or at least 65% marks till 10+2 and 7/10 CGPA afterwards.

Relevant Experience: Good knowledge of Matlab, C/C++ and Embedded coding is required. Candidate should be willing to help in doing experiments, and data collection and processing. He/she should be comfortable writing code in Matlab, C/C++ and on Embedded platform.

Application Fees: NIL

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.

Tenure: 30 Months or the termination of the project, whichever is earlier.

Project Title: All solid high performance polymer-based separators for Li ion and Li metal batteries(HPE)

Sponsor: Science and Engineering Research Board (SERB) (3rd and 4th Floor, Block II, Technology Bhavan, New Mehrauli Road, New Delhi 110016)

Consolidated Compensation: Upto Rs.37000(dependent upon qualification & experience)

Qualifications: 1. M.Sc. in Chemistry (Organic/Physical/Inorganic specialization), Or B.Tech. in Ceramics or Chemical Engineering Or M. Sc. in Materials Science 2. Valid GATE /NET Score

Relevant Experience: 1. Experience in organic synthesis /electrochemistry/electro ceramics is preferred

Application Fees: NIL

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Position: Junior Research Fellowship - Research

PI: Susanta Banerjee

Department: Materials Science Centre

Ref

No.: IIT/SRIC/R/HPE/2024/101

Ref Date: 05-06-2024

Project Title: All solid high performance polymer-based separators for Li ion and Li metal batteries(HPE)

Sponsor: Science and Engineering Research Board (SERB) (3rd and 4th Floor, Block II, Technology Bhavan, New Mehrauli Road, New Delhi 110016)

Consolidated Compensation: Upto Rs.37000(dependent upon qualification & experience)

Qualifications: 1. M.Sc. in Chemistry (Organic/Physical/Inorganic specialization), Or B.Tech. in Ceramics or Chemical Engineering Or M. Sc. in Materials Science 2. Valid GATE /NET Score

Relevant Experience: 1. Experience in organic synthesis /electrochemistry/electro ceramics is preferred

Application Fees: NIL

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Position: Junior Research Fellowship - Research
PI: Debashis Mandal
Department: Electrical Engineering
Ref No.: IIT/SRIC/R/IDV/2024/101
Ref Date: 05-06-2024

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.
Tenure: 24 Months or the termination of the project, whichever is earlier. Months or the termination of the project, whichever is earlier.
Project Title: Radiation Hardened Digital-Intensive Multi-Phase Synchronous DC-DC Buck Voltage Regulator(IDV)
Sponsor: SAC, AHMEDABAD(AHMEDABAD)
Consolidated Compensation: Upto Rs.31000(depending upon qualification & experience)
Qualifications: 1). B.Tech. (or equivalent) with valid GATE / NET score, OR M.Tech. (or equivalent) in Electrical / Electronics / Instrumentation Engineering. 2). All through 60% (or CGPA 6.5) and above from Matriculation onward.
Relevant Experience: Prior experience in Analog Integrated Circuit Design / Power Management Integrated Circuit Design will get due preference.

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Position: Junior Research Fellowship - Research
PI: Satrajit Ghosh
Department: Computer Science and Engineering
Ref No.: IIT/SRIC/R/IPT/2024/101
Ref Date: 05-06-2024

Application Fees: NIL
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.
Tenure: 36 Months or the termination of the project, whichever is earlier.
Project Title: Secure Multi Party Computation and its application in Privacy Preserving Technologies(IPT)
Sponsor: Science and Engineering Research Board (SERB) (3rd and 4th Floor, Block II, Technology Bhavan, New Mehrauli Road, New Delhi 110016)
Consolidated Compensation: Upto Rs.31000(depending upon qualification & experience)
Qualifications: 1. BE/BTech/BS/MS in (CSE / IT) or BE/B.Tech/MS in (EC/EE/Math and Computing) or M.Sc. in Mathematics. 2. Marks in Class X, XII, BTech >= 75% / 8.0 CGPA. 3. Valid GATE/NET score in the relevant topics is mandatory
Relevant Experience: The applicant should be interested in pursuing higher studies. Coding experience in C/C++/Rust and prior knowledge of Cryptography is a plus.

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Position: Junior Research Fellowship - Research
PI: Pralay Mitra
Department: Computer Science and Engineering
Ref No.: IIT/SRIC/R/MCN/2024/101
Ref Date: 05-06-2024

Application Fees: NIL
Age Limit: Upper age limit is 28 years. Relaxable up to 5 years in the case of SC/ST/OBC/Physically Handicapped / Visually Handicapped and female applicants.
Tenure: 24 months or the termination of the project, whichever is earlier. Months or the termination of the project, whichever is earlier.
Project Title: Designing a reverse vaccinology approach in the construction of a multi-epitope vaccine candidate against the bacterium Neisseria meningitides-mediated glioblastoma(MCN)
Sponsor: Department of Science and Technology and Biotechnology(Govt. of West Bengal, Vigyan Chetana Bhavan, Salt Lake, DD 26/B, Sector-I, Kolkata - 700064)
Consolidated Compensation: Upto Rs.25000(depending

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upon qualification & experience)

Qualifications: A) BE/BTech/MSc with valid GATE/NET Score in Computer Science/Information Technology /Electrical Sciences or equivalent OR ME/MTech in Computer Science/Information Technology /Electrical Sciences or equivalent. B) First class/first division in all the examinations.

Relevant Experience: Computer programming skill in at least one of the languages C/C++/Python; Knowledge in Bioinformatics

Application Fees: NIL

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.

Tenure: 36 Months or the termination of the project, whichever is earlier.

Project Title: Anisotropy of magnetic susceptibility in rocks from the Central and Southwest Indian Ridges - identifying fabric and its implications on mineralization(MII)

Sponsor: Ministry of Earth Sciences(Government of India, Prithvi Bhavan, Lodhi Road, New Delhi- 110 003)

Consolidated Compensation: Upto Rs.58000(dependent upon qualification & experience)

Qualifications: PhD

Relevant Experience: PhD in a topic related to Structural Geology. Applicant defended and submitted Ph.D thesis are also eligible. Selection in such cases will be subject to the condition that Ph.D award certificate should be produced at the time of joining.

Application Fees: NIL

Age Limit: Upper age limit is 35 years. Relaxable upto 5 years in the case of SC/ST/OBC/Physically Handicapped / Visually Handicapped and female applicant.

Tenure: 24 Months or the termination of the project, whichever is earlier.

Project Title: IoT and Sensors Enabled Method for Rapid Detection of Leakages in Water Distribution Networks(MIN)

Sponsor: Central Public Health and Environmental Engineering Organisation CPHEEO(MoHUA, GoI Nirman Bhawan, New Delhi - 110001)

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

Qualifications: B.Tech/BE in Civil Engg/Computer Science/Electrical Engg/Electronics with valid GATE /NET Score OR M. Tech in Civil Engg / Water Resources / Electrical Engg / Instrumentation / Computer Science / Electronics / Instrumentation

Relevant Experience:

Application Fees: NIL

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.

Tenure: 18 Months or the termination of the project, whichever is earlier.

Position: Research Associate - Research

PI: Manish Atmaprakash Mamtani

Department: Geology and Geophysics

Ref No.: IIT/SRIC/R/MII/2024/101

Ref Date: 05-06-2024

Position: Junior Research Fellowship

PI: Sudip Misra

Department: Computer Science and Engineering

Ref

No.: IIT/SRIC/R/MIN/2024/103

Ref Date: 05-06-2024

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Position: Project Engineer - Research

PI: Debarati Sen

Department: G.S Sanyal School of Telecommunication

Ref

No.: IIT/SRIC/R/MWG/2024/102

Ref Date: 05-06-2024

Project Title: MARL-based Beam Formation in IRS-Assisted Two-way Ultra Massive MIMO Communications for 6G Standardization(MWG)

Sponsor: IIT KHARAGPUR AI4ICPS I HUB FOUNDATION(IIT KHARAGPUR CAMPUS, DIST. PASCHIM MEDINIPUR, KHARAGPUR, Paschim Medinipur, West Bengal, 721302)

Consolidated Compensation: Upto Rs.75000(dependent upon qualification & experience)

Qualifications: (M.Tech/ M.E) 1st Class in E&ECE and EE
Relevant Experience: Knowledge in Wireless Test design, Baseband algorithm design for 5G, AI/ML, Software knowledge: Matlab, Python

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

Age Limit: 40

Tenure: 24 Months or the termination of the project, whichever is earlier.

Project Title: Earthquake induced Landslide Hazard Zoning and Newmark Displacement Modelling in Darjeeling-Sikkim Himalaya(NMD)

Sponsor: Ministry of Earth Sciences(Government of India, Seismology Division, Prithvi Bhavan, Lodhi Road, New Delhi- 110 003)

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

Qualifications: M.Sc in Geophysics or Applied Geophysics or Remote Sensing and GIS or Geospatial Sciences or Disaster Management with valid GATE/NET Score and 2 years of research experience OR MS in Geology and Geophysics or Applied Geophysics or Geology or Remote Sensing and GIS with 2 years of research experience.

Relevant Experience: Minimum 04 years of working experience on landslide hazard mapping and slope stability studies

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.

Tenure: 24 Months or the termination of the project, whichever is earlier.

Project Title: Nano particle mediated suppression of spin dewetting(NMU)

Sponsor: Science and Engineering Research Board (SERB) (3rd and 4th Floor, Block II, Technology Bhavan, New Mehrauli Road, New Delhi 110016)

Consolidated Compensation: Upto Rs.37000(dependent upon qualification & experience)

Qualifications: M.Tech. in Chemical Engineering with a CGPA of 7.5 or above. OR B.Tech in Chemical Engineering with CGPA of 8.0 and above with valid GATE Score. OR B.Tech in Chemical Engineering from any IIT (admission though JEE Advanced) with CGPA more than 8.0

Relevant Experience:

Position: Senior Research Fellowship - Research

PI: Sankar Kumar Nath

Department: Geology and Geophysics

Ref

No.: IIT/SRIC/R/NMD/2024/105

Ref Date: 05-06-2024

Position: Junior Research Fellowship - Research

PI: Rabibrata Mukherjee

Department: Chemical Engineering

Ref

No.: IIT/SRIC/R/NMU/2024/102

Ref Date: 05-06-2024

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Position: Senior Project Officer - Technical
PI: Krothapalli Sreenivasa Rao
Department: Computer Science and Engineering
Ref No.: IIT/SRIC/R/NTN/2024/103
Ref Date: 05-06-2024

Application Fees: NIL
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.
Tenure: 12 Months or the termination of the project, whichever is earlier.
Project Title: National Language Translation Mission (NLTM): BHASHINI(NTN)
Sponsor: Ministry of Electronics and Information Technology(Government of India Electronics Niketan, 6, CGO Complex, Lodhi Road, New Delhi - 110003)
Consolidated Compensation: Upto Rs.40000(dependent upon qualification & experience)
Qualifications: B.Tech./B.E. in ECE/EI/EE/CSE/IT, with minimum 75% marks (or 8.0/10.0 CGPA) throughout, starting from Class X.

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Relevant Experience: Experience in Signal processing, Speech processing, Multimedia and System development, Machine learning and Deep learning are preferred.
Application Fees: Rs.100/=(Not for female candidates)
Age Limit: 30
Tenure: 12 Months or the termination of the project, whichever is earlier.
Project Title: Online Condition Monitoring of Mineral Processing Equipment using Non-Contact Vibrometry and Acoustics(OPN)
Sponsor: TATA CONSULTANCY SERVICES LIMITED(Phase - 2, Block A, Second Floor, IIT-Madras Research Park, Kanagam Road, Taramani, Chennai, India 600113)

Position: Junior Research Fellowship - Research
PI: Arun Kumar Majumder
Department: Mining Engineering
Ref No.: IIT/SRIC/R/OPN/2024/101
Ref Date: 05-06-2024

Consolidated Compensation: Upto Rs.37000(dependent upon qualification & experience)
Qualifications: M.Tech OR B.Tech (with valid GATE Score) in Mechanical Engineering / Mining Engineering/Metallurgical Engineering with 1st class throughout.
Relevant Experience: Candidates from reputed institutes like IIT/NIT/IIEST etc will be preferred
Application Fees: NIL

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Position: Project Officer - Research
PI: Bhargab Maitra
Department: Civil Engineering
Ref No.: IIT/SRIC/R/PNC/2024/102
Ref Date: 05-06-2024

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.
Tenure: 24 Months or the termination of the project, whichever is earlier.
Project Title: Speed Management Policy at National and State Levels for Enhancing Road Safety in India: Development, Adoption, Capacity Building and Implementation(PNC)
Sponsor: International Federation of Red Cross and Red Crescent Societies (IFRC)(Route de Pre-Bois 1, 1214 Vernier, Switzerland)
Consolidated Compensation: Upto Rs.67500(dependent upon qualification & experience)
Qualifications: 1. (a) Ph.D in the area of Traffic and

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Transportation Engineering; or (b) M.Tech/M.E in relevant areas and a minimum of three year research or Industry experience related to traffic and transportation 2. Ph.D or M.Tech Thesis on topic related to Traffic and Transportation
Relevant Experience: 1. Sound knowledge in the area of traffic engineering and road safety 2. High proficiency in Technical Writing 3. Research/Industry experience related to traffic engineering/ road safety

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

Age Limit: 35

Tenure: 11 Months or the termination of the project, whichever is earlier.

Project Title: Patient-Specific Precision Surgical Aids(PSR)

Sponsor: Wipro GE Healthcare Private Limited(4 Kadugodi Industrial Area, Bangalore 560067),Science and Engineering Research Board (SERB)(Department of Science and Technology, 5 and 5A, Lower Ground Floor, Vasant Square Mall, Plot No. A,Community Centre, Sector - B, Pocket-5Vasant Kunj, New Delhi - 110 070)

Consolidated Compensation: Upto Rs.56000(dependent upon qualification & experience)

Qualifications: M.Tech 1st Class or Ph.D. in area of Image/Signal Processing

Relevant Experience: Experience in Medical Image/ Signal Analysis (3Yrs for B.E/B.Tech) is needed. Expertise in Biomechanical modelling is a plus.

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

Age Limit: 35

Tenure: 24 Months or the termination of the project, whichever is earlier.

Project Title: Correlating Physical, Chemical, and Rheological Characterization of Anionic/Sulfonated Polyacrylamides (PAMs) and their Water-shut-off performance at different temperatures(RFPA)

Sponsor: Envitech Chemical Specialities Private Limited(Gulhane Estate, GAT No. 137/2, Paud Road, Pirangut, Pune, Maharashtra, 412115)

Consolidated Compensation: Upto Rs.23000(dependent upon qualification & experience)

Qualifications: 3 Years Diploma/graduate degree in Mechanical/Chemical/Petroleum

Relevant Experience: handling of high-temperature high-pressure setups, fabrications, knowledge of fluids design for oilfield applications.

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

Age Limit: 45

Tenure: 12 Months or the termination of the project, whichever is earlier.

Project Title: Sensor-based soil moisture monitoring via Mobile App: Development of an AI-based intelligent system for marginal farmers(SDM)

Sponsor: IIT KHARAGPUR AI4ICPS I HUB FOUNDATION(IIT KHARAGPUR CAMPUS, DIST. PASCHIM MEDINIPUR, KHARAGPUR, Paschim

Position: Project Scientist - Research

PI: Subhamoy Mandal

Department: School of Medical Science and Technology

Ref

No.: IIT/SRIC/R/PSR/2024/101

Ref Date: 05-06-2024

Position: Project Technical Assistant - Technical

PI: Sandeep D Kulkarni

Department: Deysarkar Centre of Excellence in Petroleum Engineering

Ref

No.: IIT/SRIC/C/RFPA/2024/101

Ref Date: 05-06-2024

Position: Junior Research Fellowship

PI: Rajib Maity

Department: Electronics and Electrical Communication Engg.

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No.: IIT/SRIC/R/SDM/2024/101

Ref Date: 05-06-2024

Medinipur, West Bengal, 721302)

Consolidated Compensation: Upto Rs.37000(depending upon qualification & experience)

Qualifications: M.Tech (ECE/EE/Instrumentation) or B.Tech (ECE/EE/Instrumentation) Incase of B.Tech. (ECE/EE/Instrumentation) Valid GATE score is required

Relevant Experience: Candidate with electronic instrumentation knowledge Sensor development

Application Fees: NIL

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.

Tenure: 24 Months or the termination of the project, whichever is earlier.

Project Title: Sensor-based soil moisture monitoring via Mobile App: Development of an AI-based intelligent system for marginal farmers(SDM)

Sponsor: IIT KHARAGPUR AI4ICPS I HUB FOUNDATION(IIT KHARAGPUR CAMPUS, DIST. PASCHIM MEDINIPUR, KHARAGPUR, Paschim Medinipur, West Bengal, 721302)

Consolidated Compensation: Upto Rs.37000(depending upon qualification & experience)

Qualifications: 1. BTech in Civil Engineering. 2. MTech/MS in Water Resources Engineering, Hydroinformatics, AI/ML application in Hydroclimatology, and any such related fields. 3. First class/division throughout.

Relevant Experience: 1. Proficiency in PYTHON or R or MATLAB 2. Sound knowledge in probability and statistics 3. Experience on AI/ML tools, cloud computing, IoT.

Application Fees: NIL

Age Limit: 27

Tenure: 24 Months or the termination of the project, whichever is earlier.

Project Title: A smart Revenue Optimization Framework for On-demand Scheduling and Routing of Heterogeneous EVs(SFE)

Sponsor: IIT PATNA(Indian Institute of Technology Patna, Bihta Campus, Amhara Road,Bihta, District Patna, Bihar, INDIA, PIN 801106)

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

Qualifications: B.Tech or M.Sc. in CS/IT/EE/ECE / Maths and Computing with valid GATE and NET Score; At least 60% marks or 6.5 CGPA in all exams from class 10 onwards

Relevant Experience: Good knowledge in Programming, Data Structures and Algorithms

Application Fees: NIL

Age Limit: Upper age limit is 28 years; relaxable upto 5 years for SC/ST/OBC/Physically Handicapped/ Visually Handicapped and female applicants

Tenure: 24 Months or the termination of the project,

Position: Junior Research Fellowship

PI: Rajib Maity

Department: Civil Engineering

Ref

No.: IIT/SRIC/R/SDM/2024/102

Ref Date: 05-06-2024

Position: Junior Research Fellowship - Research

PI: Arnab Sarkar

Department: Advanced Technology Development Centre

Ref No.: IIT/SRIC/R/SFE/2024/102

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whichever is earlier Months or the termination of the project, whichever is earlier.

Project Title: Binder Free, Self Supported Hierarchical Porous carbon Fiber For Inversely Vulcanized Li S Battery Electrodes(SHB)

Sponsor: Ministry of Textile, GoI(Udyog Bhawan, New Delhi)

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

Qualifications: M.Sc in chemistry/polymer science / Materials Science with valid NET score OR M. Tech in polymer science and engineering / rubber technology / materials science OR M. Tech in chemical engineering

Relevant Experience: Candidate should have good academic record. The candidate should be well versed in writing scientific documents, data analysis and making reports. Hand on experience on chemical synthesis is required. Battery and/or supercapacitor fabrication, testing, or any energy materials expertise will be considered as added value to the application.

Application Fees: NIL

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.

Tenure: 18 Months or the termination of the project, whichever is earlier.

Project Title: Binder Free, Self Supported Hierarchical Porous carbon Fiber For Inversely Vulcanized Li S Battery Electrodes(SHB)

Sponsor: Ministry of Textile, GoI(Udyog Bhawan, New Delhi)

Consolidated Compensation: Upto Rs.47000(depending upon qualification & experience)

Qualifications: Ph.D in chemistry / polymer science and engineering / rubber technology / materials science / chemical engineering / nano science and technology / energy science and engineering / physics or other relevant disciplines with research work on energy materials domain.

Relevant Experience: Candidate should have good academic record with good knowledge of electrochemistry. The candidate should be well versed in writing scientific documents, manuscripts, data analysis and making reports. Hand on experience on battery/supercapacitor fabrication and testing is required. Any prior energy materials expertise will be considered as added value to the application.

Application Fees: NIL

Age Limit: Upper age limit is 35 years. Relaxable upto 5 years in the case of SC/ST/OBC/Physically Handicapped / Visually Handicapped and female applicant.

Tenure: 18 Months or the termination of the project, whichever is earlier.

Project Title: Vortex soliton in chiral random laser(SRL)

Sponsor: Science and Engineering Research Board (SERB) (3rd and 4th Floor, Block II, Technology Bhavan, New

Position: Junior Research Fellowship - Research

PI: Soumyadip Choudhury

Department: Rubber Technology

Ref No.: IIT/SRIC/R/SHB/2024/101

Ref Date: 05-06-2024

Position: Post Doctoral Fellowship - Research

PI: Soumyadip Choudhury

Department: Rubber Technology
Ref

No.: IIT/SRIC/R/SHB/2024/102

Ref Date: 05-06-2024

Position: Research Associate - Research

PI: Samudra Roy

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Department: Physics
Ref
No.: IIT/SRIC/R/SRL/2024/102
Ref Date: 05-06-2024

Mehrauli Road, New Delhi 110016)
Consolidated Compensation: Upto Rs.47000(depending upon qualification & experience)
Qualifications: PhD in Physics/Engineering (spinalization in Photonics) Candidates who have submitted their thesis can also apply. Selection in such cases will be subject to the condition that Ph.D. award certificate should be produced at the time of joining.
Relevant Experience: Doctoral work in the field of Photonics

Application Fees: NIL
Age Limit: Upper age limit is 35 years. Relaxable upto 5 years in the case of SC/ST/OBC/Physically Handicapped / Visually Handicapped and female applicant.
Tenure: 24 Months or the termination of the project, whichever is earlier.

Project Title: An Artificial Intelligence-based Real-Time Traffic Management System for Mitigating Congestion in Urban Road Networks(TMM)

Sponsor: IIT KHARAGPUR AI4ICPS I HUB FOUNDATION(IIT KHARAGPUR CAMPUS, DIST. PASCHIM MEDINIPUR, KHARAGPUR, Paschim Medinipur, West Bengal, 721302)

Consolidated Compensation: Upto Rs.37000(depending upon qualification & experience)

Qualifications: 1. (a) M.E/M.Tech in Computer Science/Electronics/IT/AI or similar discipline OR (b) B.E/B.Tech in Computer Science/Electronics/IT/AI or similar discipline with valid GATE Score 2. Proficiency in Statistics 3. Skills in Python and/or C++

Relevant Experience: Knowledge in Optimization, AI/ML and Simulation

Application Fees: NIL
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.
Tenure: 24 Months or the termination of the project, whichever is earlier.

Project Title: An Artificial Intelligence-based Real-Time Traffic Management System for Mitigating Congestion in Urban Road Networks(TMM)

Sponsor: IIT KHARAGPUR AI4ICPS I HUB FOUNDATION(IIT KHARAGPUR CAMPUS, DIST. PASCHIM MEDINIPUR, KHARAGPUR, Paschim Medinipur, West Bengal, 721302)

Consolidated Compensation: Upto Rs.42000(depending upon qualification & experience)

Qualifications: 1. M.E/M. Tech in Transportation Engineering 2. Minimum 2 year Research Experience in areas related to Traffic Engineering

Relevant Experience: Knowledge in Statistics and data analytics

Application Fees: NIL

Age Limit: Upper age limit is 32 years. Relaxable upto 5

Position: Junior Research Fellowship - Research
PI: Bhargab Maitra
Department: Civil Engineering
Ref
No.: IIT/SRIC/R/TMM/2024/101
Ref Date: 05-06-2024

Position: Senior Research Fellowship - Research
PI: Bhargab Maitra
Department: Civil Engineering
Ref
No.: IIT/SRIC/R/TMM/2024/102
Ref Date: 05-06-2024

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years in the case of SC/ST/OBC/Physically Handicapped / Visually Handicapped and female applicant.

Tenure: 21 Months or the termination of the project, whichever is earlier.

Project Title: An Artificial Intelligence-based Real-Time Traffic Management System for Mitigating Congestion in Urban Road Networks(TMM)

Sponsor: IIT KHARAGPUR AI4ICPS I HUB FOUNDATION(IIT KHARAGPUR CAMPUS, DIST. PASCHIM MEDINIPUR, KHARAGPUR, Paschim Medinipur, West Bengal, 721302)

Position: Senior Scientific Officer - Research

PI: Bhargab Maitra

Department: Civil Engineering

Ref

No.: IIT/SRIC/R/TMM/2024/103

Ref Date: 05-06-2024

Consolidated Compensation: Upto Rs.42000(depending upon qualification & experience)

Qualifications: 1 M.E/M. Tech in Transportation Engineering
2. Minimum 2 year Research Experience in areas related to Traffic Signal Control / Incident Management in Urban road Network/ Related Areas

Relevant Experience: 1. Knowledge in Statistics and Design of Experiment 2. Knowledge in Optimization and AI/ML Techniques

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

Age Limit: 40

Tenure: 24 Months or the termination of the project, whichever is earlier.

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Project Title: An Artificial Intelligence-based Real-Time Traffic Management System for Mitigating Congestion in Urban Road Networks(TMM)

Sponsor: IIT KHARAGPUR AI4ICPS I HUB FOUNDATION(IIT KHARAGPUR CAMPUS, DIST. PASCHIM MEDINIPUR, KHARAGPUR, Paschim Medinipur, West Bengal, 721302)

osition: Junior Project Attendant - Tech Support

PI: Bhargab Maitra

Department: Civil Engineering

Ref

No.: IIT/SRIC/R/TMM/2024/104

Ref Date: 05-06-2024

Consolidated Compensation: Upto Rs.21700(depending upon qualification & experience)

Qualifications: Graduation in any discipline with knowledge in traffic data collection, video data processing, MS Excel and MS Word

Relevant Experience: Experience of carrying out various traffic studies using manual methods, personal interviews, videography, etc.

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

Age Limit: 35

Tenure: 24 Months or the termination of the project, whichever is earlier.

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Position: Research Assistant - Research

PI: Narayan Chandra Nayak

Department: Humanities and Social Sciences

Ref

No.: IIT/SRIC/R/WAD/2024/101

Ref Date: 05-06-2024

Project Title: Womens Access to Higher Education in India: Issues, Challenges and Determinants(WAD)

Sponsor: INDIAN COUNCIL OF SOCIAL SCIENCE RESEARCH(JNU Institutional Area, Aruna Asaf Ali Marg, New Delhi - 110067 (INDIA))

Consolidated Compensation: Upto Rs.37000(depending upon qualification & experience)

Qualifications: Ph.D./M.Phil/Post Graduate in Economics with minimum 55% marks at the PG level. Good academic record is desirable.

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Relevant Experience: Previous project/research experiences, including involvement in field survey, data handling and empirical data analysis

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

Age Limit: 35

Tenure: 24 Months or the termination of the project, whichever is earlier.

Project Title: Development of superior wear resistant and recyclable polymer and ceramic reinforced polymer composite for mill liner applications(WMA)

Sponsor: Bradken India Private Limited(20 McIntosh Drive Mayfield West NSW, 2304 Australia)

Consolidated Compensation: Upto Rs.37000(dependent upon qualification & experience)

Qualifications: BE or B Tech Degree or PG Degree in Basic Sciences with valid GATE or NET score OR ME or M Tech Degree in Rubber or Plastics or Materials Science or Materials Engineering or Chemistry or Applied Chemistry or Chemical Engineering or Nanotechnology. GATE is not mandatory for ME or M.Tech degree.

Relevant Experience: Knowledge in Polymer/Rubber/Plastic Technology/Applied Chemistry, Chemistry/Chemical Engineering/composites, Materials, or Allied, etc

Application Fees: NIL

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.

Tenure: 36 Months or the termination of the project, whichever is earlier.

Project Title: "FPGA-based underwater optical wireless communication system duplex link(WSD)

Sponsor: Ministry of Earth Sciences(Government of India, Prithvi Bhavan, Lodhi Road, New Delhi- 110 003)

Consolidated Compensation: Upto Rs.58000(dependent upon qualification & experience)

Qualifications: PhD (awarded/Completed/**Submitted) in the area of optical communication/Communication/Electronics,6 or M.Tech (ECE/EE) having 3 Years of research, teaching and design and development experience with at least one research paper in Science Citation Indexed (SCI) journal. ** The candidate who has submitted PH.D. thesis in the above mentioned area can also apply but in such cases will be subject to the condition that Ph.D. awarded certificate should be produced at the time of joining.

Relevant Experience: Candidate should have worked in the optical communication and should have strong knowledge of communication in general -Candidate should have also experienced with the hardware development for optical wireless technologies

Application Fees: NIL

Age Limit: Upper age limit is 35 years. Relaxable upto 5 years in the case of SC/ST/OBC/Physically Handicapped / Visually Handicapped and female applicant.

Position: Junior Research Fellowship - Research

PI: Narayan Chandra Das

Department: Rubber Technology Ref

No.: IIT/SRIC/R/WMA/2024/101

Ref Date: 05-06-2024

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Position: Research Associate

PI: Shailendra Kumar Varshney

Department: Electronics and Electrical Communication Engg. Ref

No.: IIT/SRIC/R/WSD/2024/103

Ref Date: 05-06-2024

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Tenure: 18 Months or the termination of the project, whichever is earlier.