Applications are invited from the eligible candidates for the temporary posts of Junior Research Fellows (JRF) and Technical Assistants (TA) to be engaged in various projects under RUSA at Anna University.

<table>
<thead>
<tr>
<th>Post Code</th>
<th>Project Title</th>
<th>No of Positions required</th>
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<tbody>
<tr>
<td>PO1</td>
<td>Grid Planning and restructuring for Grid Integration of Electric Vehicle Charging Station</td>
<td>1 1</td>
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<tr>
<td>PO2</td>
<td>Development of Energy Efficient motor drive systems for Electric Vehicle</td>
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<td>PO3</td>
<td>Coordinated design and tuning of controllers for onboard/off board power electronic interfaces</td>
<td>1 1</td>
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<td>PO4</td>
<td>Protection of electric vehicles and charging infrastructure against lightening and switching surges</td>
<td>1 1</td>
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<td>PO5</td>
<td>Design and development of smart embedded controllers for electric vehicles</td>
<td>1 1</td>
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<td>PO6</td>
<td>Improved SoH soft sensors and controls for battery management system of electric vehicles</td>
<td>1 1</td>
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<td>PO7</td>
<td>Monitoring and analysis of power quality issues on to the distribution network due to electric vehicle infrastructure</td>
<td>1 2</td>
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<tr>
<td>PO8</td>
<td>Assessment of different hybrid vehicle technologies with high efficiency RCCI combustion engine and effective thermal management systems</td>
<td>2 1</td>
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<tr>
<td>PO9</td>
<td>Material Selection, Fabrication, Characterization and Components Manufacturing for Automotive Applications</td>
<td>1 0</td>
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<tr>
<td>PO10</td>
<td>Investigations on electromagnetic forming process of thermal spray coated AISI 316L sheets used to make metallic bipolar proton exchange fuel cells and forming of tubular and sheet metal components of aluminum alloys for automotive applications</td>
<td>2 0</td>
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<tr>
<td>PO11</td>
<td>Development of Renewable Energy System for Automotive Applications</td>
<td>1 0</td>
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<tr>
<td>PO12</td>
<td>Development of RuO$_2$-MnO$_2$/N-Doped Graphene Hybrid Nano Super capacitors as Energy Storage Devices for Electric Vehicles</td>
<td>2 2</td>
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<tr>
<td>PO13</td>
<td>Development of cathode materials in Lithium-Sulfur battery for electric vehicle applications</td>
<td>3 3</td>
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<tr>
<td>PO14</td>
<td>Development of fuel cell components for hybrid electric vehicle applications</td>
<td>2 0</td>
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</tbody>
</table>
Advt. No.: 6138/RUSA2.0/PD3/2020

Salary:

Junior Research Fellow (JRF) : Rs. 32500/month (inclusive of HRA)
Technical Assistant (TA) : Rs. 20000/month (inclusive of HRA)

General Information:

1. GATE/NET qualified candidates will be given preference and considered for JRF. If suitable candidates are not found in GATE/NET category, Non GATE/Non NET candidate will be considered for suitable post and salary will be fixed accordingly as per the CTDT norms of Anna University.
2. Only short-listed candidates will be called for interview.
3. The position is purely temporary for 6 months and may be extended based on the performance.
4. Separate Application should be sent for each post if required to apply for more than one post.
5. Any claim with regard to qualification & experience should have necessary certificates.

How to Apply:

Interested candidates possessing qualification & experience as mentioned in Annexure-I may send their filled-in application form (as per Annexure - II) to Coordinator, RUSA Project, Planning and Development Section, Anna University, Chennai -25
Email: dpdannauniv@gmail.com along with self-attested photocopies of educational qualifications, date of birth certificate, any other experience certificates, Mark sheets, evidence of any other academic credentials on or before 18.09.2020. Kindly mention in the subject as “Application for the post of JRF / TA – RUSA2.0 / AU” “Post code__________”.

REGISTRAR
## Qualifications & Experience

<table>
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<tr>
<th>Post Code</th>
<th>JRF</th>
<th>TA</th>
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| PO1       | Essential  
Desirable  
Candidates with Industrial Experience & apprenticeship training in TANGEDCO. | Essential  
B.E in Electrical and Electronics Engineering  
Desirable  
Nil |
| PO2       | Essential  
B.E and M.E in Electrical and Electronics Engineering and M.E in Power Electronics and Drives / Electrical Drives and Control  
Desirable  
Candidates with Industrial Experience | Essential  
B.E in Electrical and Electronics Engineering  
Desirable  
Nil |
| PO3       | Essential  
M.E Power Electronics and Drives (OR) M.E  
Power System Engineering  
Desirable  
1. Hands on experience in power electronics hardware and instrumentation  
2. Knowledge and experience in PS/CAD, MATLAB Simulation  
3. Knowledge in modelling of solar pv, wind turbine generators  
4. Knowledge in battery energy storage systems  
5. Knowledge and Hands on experience in REAL Time Hardware | Essential  
B.E in Electrical and Electronics Engineering  
Desirable  
Hands on experience in power electronics instrumentation |
| PO4       | Essential  
ME/MTech. in High Voltage Engineering  
Desirable  
• Basic knowledge in Electromagnetic fields, computation and modelling using computational softwares  
• Hands on experience in generation and measurement of high voltage transients | Essential Qualification:  
B.E/B.Tech in Electrical and Electronics Engineering  
Desirable  
• Basic knowledge in Electromagnetic fields, computation using computational software |
## Qualifications & Experience

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<th>Post Code</th>
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</table>
| PO5       | **Essential** ME/MTech / MS in Embedded System technologies/ Control and Instrumentation/ Power Electronics & Drives/ Applied Electronics  
**Desirable** Experience in Automotive Embedded System preferably in the area of ECU development.  
- Basic knowledge in Embedded Systems, SoC/SoB, Reprogrammable architecture and Matlab/SIMULINK-automotive modules /SPICE/ Embedded IDEs.  
- Knowledge in ECU development.  
- Knowledge in Embedded C programming, python programming and Machine learning algorithm.  
Knowledge in Automotive embedded systems and AUTOSAR | **Essential** BE/BTech / BS in Electrical and Electronics Engineering / Electronics and Communication Engineering / Electronics and Instrumentation Engineering  
**Desirable** Industrial experience in Automotive Embedded System.  
**Skills required:**  
- Basic knowledge in Embedded Systems, SoC/SoB, Reprogrammable architecture and Matlab/SIMULINK-automotive modules /SPICE/ Embedded IDEs.  
- Working Knowledge in Embedded IDEs, Embedded C Programming and Matlab |  |
| PO6       | **Essential** M.E. in Computer Science Engineering or M.E. in Embedded System Technologies.  
**Desirable** Experience in programming with C, Python or Matlab | **Essential** B.E. in Computer Science Or B.E. in Electrical and Electronics Engineering  
**Desirable** Experience in C, Python or Matlab |  |
| PO7       | **Essential** ME/MTech in Power systems, Power Electronics, Control & Instrumentation  
ME/MTech/MS in Electrical and Electronics Engineering , Electronics & Instrumentation Engineering  
**Desirable** Experience in power quality and power systems, hands on experience in ETAP or Digsilent power factory and rich experience in power station design, installation and commissioning.  
- basic knowledge in Electric vehicles, Power quality, Electrical design (Single Line and Detailed engineering diagrams), PVSYST/PV Sketch, AutoCAD and Matlab/SIMULINK | **Essential** BE/BTech / BS in Electrical and Electronics Engineering , Electronics and Instrumentation Engineering, Electronics and Communication Engineering  
**Desirable** Experience in Handling practical power quality measurements at sites (Dranetz and Fluke power quality analyzers).  
Prior Experience with soldering is highly preferable.  
- basic knowledge in Electric vehicles, Power quality, Electrical design (Single Line and Detailed engineering diagrams)  
- Working Knowledge on AutoCAD and Matlab/SIMULINK |  |
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<th>Post Code</th>
<th>JRF</th>
<th>TA</th>
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| PO8A      | Essential  
Desirable  
Experience in Thermal Engineering | Essential Qualification/Experience:  
- B.E./B.Tech. in Mechanical Engineering / Automobile Engineering  
Desirable  
Nil |
| PO8B      | Essential  
- M.E./M.Tech. Engineering Design / Manufacturing / Metallurgy with B.E/B.Tech in Mechanical / Production / Manufacturing / Materials Science and Engineering  
Desirable  
- Knowledge in Tribology, Micro-Manufacturing, Materials Characterisation and Engine Testing | NIL |
| PO9       | Essential  
B.E/B.Tech in Mechanical Engineering/Production Engineering/Manufacturing Engineering/Materials Science and Engineering/Metallurgy With M.E/M.Tech in Manufacturing Engineering/Production Engineering/Metallurgy/Polymarc Science and Engineering/Polymarc Technology Or M.Sc. (Materials Science)  
Desirable  
Experience in coating technologies such as laser cladding/energy storage device | NIL |
| PO10      | Essential  
M.E./M.Tech in Engineering Design/Production/Manufacturing / CiM / CAD / IC Engines / Automobile Engg  
Desirable  
Nil | NIL |
| PO11      | Essential  
M.E/ M.Tech in Energy Engineering / Solar Energy / Mechanical Engineering  
Desirable  
Exposure in related area | NIL |
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<th>Post Code</th>
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</table>
| **PO12**  | **Essential:**
M.Sc Chemistry/ Physics/ Material Science,  
M.E/M.Tech Nano science/ Nano Tech/ Chemical/ Material Science/Energy Engg  
**Desirable:**  
Experience/Exposure in energy storage materials | **Essential:**
B.Tech- Chemical  
M.Sc Chemistry/Physics /Material Science |
| **PO13**  | **Essential**
M.Sc Chemistry/ Physics/ Material Science,  
M.E/M.Tech Nano science/ Nano Tech/ Chemical/ Material Science/Energy Engg  
**Desirable**
Working experience in energy storage materials | **Essential**
M.Sc Chemistry/Physics /Material Science  
B.Tech- Chemical Engg |
| **PO14**  | **Essential**
M.Sc./MTech in Physics/Materials science  
/Chemistry/ Nanotechnology/ Nanoscience/ Ceramic Technology/ Polymer Technology  
**Desirable**
Experience in related research area | **Nil** |
RUSA 2.0 - APPLICATION FORM (JRF/TA)
(To be filled by office)

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<tr>
<th>Application number</th>
<th>Date of Receipt of the application</th>
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**Personal Details:**

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<tr>
<th>Full Name (In Capital)</th>
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<tr>
<td>Date of Birth (DD/MM/YY)</td>
<td>Gender (Male/Female)</td>
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<td>Marital Status (Married/Unmarried)</td>
<td>Nationality</td>
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<td>Category (Gen/EWS/OBC/SC/ST)</td>
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<th>Address for Communication</th>
<th>Permanent Address</th>
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<th>Mobile/Phone no.</th>
<th>E-mail</th>
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| Name of the post applied for & post code (Separate application for each post id required) |  |

**Education Background (From Matriculation Onward; Attach Scanned copies of the qualifying degree certificates and marksheets)**

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<thead>
<tr>
<th>S. No.</th>
<th>Degree</th>
<th>Board / University</th>
<th>Regular/ Part time</th>
<th>Year</th>
<th>Division</th>
<th>% Marks /CGPA</th>
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Qualifying Examination (GATE/CSIR/UGC/NET/Others)

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<tr>
<th>S. No.</th>
<th>Qualifying Examination</th>
<th>Branch</th>
<th>Year</th>
<th>Valid up to</th>
<th>Percentile</th>
<th>All India Rank</th>
<th>Any other information</th>
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Professional Experience (Attach Scanned Copies of experience certificates)

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<tr>
<th>S. No.</th>
<th>Designation</th>
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<th>Period</th>
<th>Nature of Work</th>
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Research Publications (if any) :

Awards, Patents, Prizes etc., (if any) :

Any other relevant information which is not covered above:

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 found at any stage, Anna University, Chennai, shall cancel my application / selection. I am aware that this application is only for temporary position.

Place:

Date: Signature of the Applicant