

**ADVERTISEMENT FOR THE POST OF RESEARCH ASSOCIATE (RA) / SRF/ JRF FOR CSIR SPONSORED RESEARCH PROJECT AT CSED**

Applications are invited for the post of Research Associate/SRF/JRF to work for CSIR Funded research project in Computer Science and Engineering Department, Thapar Institute of Engineering and Technology, Patiala.

**Project Details:**

**Title:** SMART IRRIGATION AND FERTILIZATION SYSTEM FOR PRECISION AGRICULTURE USING INTERNET OF THINGS AND CLOUD INFRASTRUCTURE

<b>Duration : 3 years</b> (up to the length of project) Post	<b>Qualification</b>	<b>Fellowship</b>
<b>One Research Associate</b>	PhD completed or Submitted in area of Computer Science/Electronics/Usage of ICT in field of Agriculture Or ME/ MTech with three years of research, teaching and Design and Development Experience with good publications Desirable: SCI Publications	<b>36,000/-</b>
<b>SRF</b>	ME/MTech in Computer Science and Engineering/ ECE/ EIC/ Agriculture Engineering or equivalent Desirable: Good Publications	<b>14,000/-</b>

<b>JRF</b>	BE/BTech in Computer Science/ ECE/EIC/ Agriculture Engineering/ MCA/ MSc in Agriculture with and experience of handling similar projects with minimum 55% marks and NET/Gate Exam Cleared. Desirable: Experience on IoT implementation	<b>12,000/-</b>
------------	---	-----------------

### **Skills Required:**

1. Must have hands on experience in Arduino, Raspberry Pi, Sensors, XBEE and other Communication Technologies like Bluetooth, GSM, Wi-Fi.
2. Must have strong MATLAB and Python scripting experience.
3. Must have already implemented IoT based projects.
4. An experience of development of Software / Mobile app is desirable.
5. Knowledge of machine learning and deep learning techniques.
6. Experience with data analysis and problem solving with large amounts of data is preferred.

### **Desirables**

1. Dedication and Commitment to work for the project including some field work.
2. Excellent analytical, presentation and Research article writing skills.
3. Strategic thinking and execution in a fast-paced environment.
4. Should exhibit creativity and resourcefulness.
5. Organized and detail oriented.
6. Having good publications in Scopus/SCI.

### **Responsibilities:**

1. To develop Smart Irrigation and Fertilization System for Precision Agriculture
2. To write research papers
3. To maintain project related documentation

**How to Apply: If you have desire to make an impact in the life of millions through technology then send your CV on or before 9<sup>th</sup> Aug 2019 at [parteek.bhatia@thapar.edu](mailto:parteek.bhatia@thapar.edu)**

**Dr. Sanmeet Kaur**  
**Associate Professor (Principal Investigator-CSIR project)**  
**Computer Science and Engineering Department**  
**Thapar University, Patiala, Punjab-147004**

**Dr. Parteek Bhatia**  
**Associate Professor (Co-Principal Investigator-CSIR project)**  
**Computer Science and Engineering Department**  
**Thapar University, Patiala, Punjab-147004**  
**Email: [parteek.bhatia@thapar.edu](mailto:parteek.bhatia@thapar.edu)**