

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

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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

**Duration** : 3 years (up to the length of project)

| <b>Post</b>                   | <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<br>Or ME/ MTech with three years of research, teaching and Design and Development Experience with good publications<br>Desirable: SCI Publications | <b>36,000/-</b>   |
| <b>SRF</b>                    | ME/MTech in Computer Science and Engineering/ ECE/ EIC/ Agriculture Engineering or equivalent<br>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.<br>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.
  
7. **Responsibilities:**
  - To develop Smart Irrigation and Fertilization System for Precision Agriculture
  - To write research papers
  - 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 20<sup>th</sup> September, 2018 at [sanmeet.bhatia@thapar.edu](mailto:sanmeet.bhatia@thapar.edu)**

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

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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)