



**Ponnaiyah Ramajayam Institute of Science and Technology  
(PRIST)**

Deemed to be University U/s 3 of UGC Act. 1956.  
Vallam, Thanjavur-613403, India.

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## **Centre for Research and Development**

### **Ongoing Research activities at CRD**

- Alternative renewable energy
- Biodiversity and conservational biology
- Computational Chemistry
- Clinical Microbiological research
- Drug discovery
- Effluent treatment
- Laser applications
- Metabolic engineering
- Nanomaterials synthesis
- Optical sensors
- Organic Synthesis & Medicinal Chemistry
- Tissue culture
- Geo-informatics & Environmetrics



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<b>Extramural research projects (completed)</b>	:	<b>09</b>
<b>In-house projects (completed)</b>	:	<b>20</b>
<b>Extramural research projects (ongoing)</b>	:	<b>06</b>
Research projects granted from funding agencies	:	10 (Total budget size: 3.13 Crore)
Projects proposals submitted for funding	:	22 (Total budget size: 4.94 Crore)

### **Funding agencies**

- World Noni Research Foundation (WNRF), Govt. of India
- Department of Biotechnology (DBT), Govt. of India
- Indian Council of Medical Research (ICMR)
- Department of Science and Technology (DST)
- Indo-Korea (DST & Ministry of Energy, Science and Technology, Korea)
- Defense Research and Development Organization (DRDO)
- Women Scientist Scheme-DST
- DST-Fast track scheme

### **Academic particulars**

Total registered Scholars	:	<b>271</b>
Ph.D. degree awarded	:	<b>191</b>
In-house annual journals released	:	<b>01</b>



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**Workshops/Conferences conducted**

National	:	<b>77</b>
International	:	<b>06</b>

**Patents/papers publications**

Patent filed	:	<b>35</b>
Total number of publications	:	<b>1897</b>
Total number of Scopus-indexed publications	:	<b>902</b>
Books	:	<b>15</b>
Book chapters	:	<b>16</b>
Highest impact factor	:	<b>13.6</b>
<i>H</i> -index	:	<b>27</b>

**International recognition**

Researcher Visiting to Other Countries	:	<b>28</b>
Young Scientist award	:	<b>02</b>
Fellow membership international societies	:	<b>08</b>

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<b>Scientist Forum</b>	:	<b>37</b>
<b>Research Scholars Colloquium</b>	:	<b>54</b>
<b>MoU signed (Related to R&amp;D )</b>		
National institutions & industries	:	<b>26</b>
International institutions	:	<b>20</b>

## **Consultancy services available at CRD -Research support Training Technology support**

- Alternative energy models
- Animal feed formulations
- Animal breeding
- Aquaculture
- Aromatic and medicinal plant cultivation and supplies
- Biofertilizers
- Consolidated bioprocessing
- Disease free plantations
- Effluent treatment
- Embedded systems
- Mushroom cultivation
- Natural health drinks
- Organic farming
- Solar panel construction and process automation
- Vermicomposting
- Synthesis of drugs and organic molecules
- Bioremediation
- Instrumental Analysis & Characterization
- Analytical support for students, researchers, industrial and technical professionals



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- Animal breeding and supplies
- Business support in aromatic and medicinal plants cultivation and marketing
- Farming system and management for agriculturists/farmers
- Pollution monitoring control
- Product and process development for industries
- Production of bulk and fine chemicals, biomaterials and energy related products
- Rural development
- Socio-economic development
- Solid waste and waste water management to industries
- Training programs for students and research scholars on innovative projects

### **Incubation and entrepreneurship development initiatives**

- Seeding
- Incubation
- Technology development
- Patenting
- Commercialization
- Marketing