



Madurai Kamaraj University

RASHTRIYA UCHCHATAR SHIKSHA ABHIYAN (RUSA)

Entrepreneurial, Innovation, Skill and Career Hub

Internship opportunity for PG students

Madurai Kamaraj University-RUSA presents an internship opportunity. MKU provides opportunity for the aspiring Postgraduate students to gain hands-on experience to boost their academic profile.

 I & II year PG students from Universities and Colleges can apply.

 Internship period - 27 May 2024 - 28 June 2024

Highlights

- ✓ To utilize the expertise and facilities available within our esteemed Faculty & Departments.
- ✓ Enhance your skills and knowledge in your field of interest.
- ✓ Receive an internship stipend of Rs.4,000/- for a month and working expenses of upto Rs.10,000/-
- ✓ Obtain a internship certificate from Madurai Kamaraj University - RUSA Skill Hub.

This Internship Program aims to bridge the gap between theoretical knowledge and practical application by offering 4 weeks internship in various Departments of our University. Go through the following pages and MKU Department links to find out the Department and Faculty member to suit your interest. For other information about Faculty and Departments, visit MKU website (mkuniversity.ac.in).

Please use this opportunity to kickstart your career journey and stand out. Make your summer break count! Apply now and pave the way for a bright future.

To register - <https://forms.gle/3YhGaPUqg1GbV8hx9>

Timeline : 14.05.2024

School of Biological Sciences

S.No	Faculty Member	Department	Area of Expertise for Internship	Facility available in the Department/School/Lab
1	Prof. G.Kumaresan	Genetics / Biological Sciences	<ul style="list-style-type: none"> ➤ Cancer Genomics ➤ Drug Discovery ➤ Ancient Genomics 	<ul style="list-style-type: none"> ➤ Cell Culture Labs ➤ Ancient Genomics Lab ➤ High Content Drug Screening Facility ➤ High Performance Computing system
2	Dr. M. Jayalakshmi	Immunology	<ul style="list-style-type: none"> ➤ Immunology ➤ Microbiology ➤ Bioinformatics ➤ Phytochemistry 	<ul style="list-style-type: none"> ➤ Nucleic acid extraction laboratory ➤ PCR, RT-PCR ➤ Electrophoresis ➤ Equipped Microbiology & Phytochemistry lab
3	Dr. S. Chandrasekaran	Plant Science	<ul style="list-style-type: none"> ➤ Ecology 	<ul style="list-style-type: none"> ➤ Facilities to carry out ecological research
4	Dr. K. Jayakumar	Animal Behavior	<ul style="list-style-type: none"> ➤ Coral Identification, ➤ Coral Reef Genomics ➤ Marine Bioprospecting, ➤ Marine Genomics 	<ul style="list-style-type: none"> ➤ Molecular biology laboratory ➤ Coral SCUBA diving facility
5	Dr. A. Justin Thenmozhi	Biochemistry	<ul style="list-style-type: none"> ➤ Natural products ➤ Antioxidants ➤ Neuro degenerative diseases, Cell culture ➤ Western blot 	<ul style="list-style-type: none"> ➤ Immunoblotting ➤ Cell culture facility
6	Dr. J. Rajendharan	Genetics	<ul style="list-style-type: none"> ➤ Microbial Genomics 	<ul style="list-style-type: none"> ➤ Molecular biology equipments ➤ Computation facility
7	Dr. C. Amutha	Animal Behavior	<ul style="list-style-type: none"> ➤ Aquaculture ➤ Xenobiotics-molecular detoxification mechanisms, Endocrine disruption ➤ Bioremediation using microbial enzyme nanoparticle conjugates ➤ Induced breeding technology in shell and fin fishes, Nutri-genomics 	<ul style="list-style-type: none"> ➤ Soxhlet apparatus ➤ PCR ➤ Epifluorescent microscope ➤ Gel Doc
8	Dr. S. Ramasamy	Biochemistry	<ul style="list-style-type: none"> ➤ RNA Biology, ➤ Toxicological Biochemistry, ➤ Molecular cardiology 	<ul style="list-style-type: none"> ➤ RNA isolation and Characterization ➤ Western-Blotting ➤ Gel electrophoresis ➤ Cell cytotoxicity
9	Dr. V. Shanmugaiah	Microbial Technology	<ul style="list-style-type: none"> ➤ Microbial metabolites 	<ul style="list-style-type: none"> ➤ PCR ➤ Fermenter
10	Dr. M. Murugan	Microbial Technology	<ul style="list-style-type: none"> ➤ Exopolysaccharide 	<ul style="list-style-type: none"> ➤ PCR
11	Dr. U. Ramesh	Molecular Biology	<ul style="list-style-type: none"> ➤ Fish Biology ➤ Toxicology ➤ Histo techniques 	<ul style="list-style-type: none"> ➤ PCR ➤ Microtome
12	Dr. T. Jebasingh	Plant Science	<ul style="list-style-type: none"> ➤ Plant virology ➤ Small RNA Biology 	<ul style="list-style-type: none"> ➤ DNA, RNA, Protein Research ➤ Small RNA Genomics ➤ Transcriptomics ➤ Recombinant protein expression and purification ➤ Protein-protein interaction ➤ Plant tissue culture ➤ Plant protoplast isolation and transfection ➤ Plant Agrobacterium mediated transformation and infiltrations ➤ Metabolomics, Lateral flow device
13	Dr. B. Ashok Kumar	Genetic Engineering /SBT	<ul style="list-style-type: none"> ➤ Genetic disorder diagnosis ➤ Microbial degradation 	<ul style="list-style-type: none"> ➤ DNA Mutational analysis ➤ PCR ➤ RT-PCR ➤ Cell cytotoxicity ➤ C.elegans culturing

School of Biotechnology

S. No	Name of Faculty Member	Department	Area of Expertise for Internship	Facility available in the Department/School/Lab
1	Dr.N.Sivakumar	Molecular Microbiology	<ul style="list-style-type: none"> ➤ Probiotics, ➤ Prebiotics – aquaculture nutrition 	<ul style="list-style-type: none"> ➤ Yes (required facility)
2	Dr. G. Sridevi	Plant Biotechnology	<ul style="list-style-type: none"> ➤ Plant Genetic Engineering ➤ Plant Functional Genomics, ➤ RNA silencing 	<ul style="list-style-type: none"> ➤ Plant tissue culture, transformation, ➤ Recombinant DNA technology, ➤ NGS analysis
3	Dr. P.VARALAKSHMI	Molecular Microbiology	<ul style="list-style-type: none"> ➤ Bioactive Metabolites from Algae for cancer, Diabetes, obesity. ➤ Neurological disorders ➤ Renewable energy from Algae 	<ul style="list-style-type: none"> ➤ PCR ➤ Chem Doc system ➤ Lyophilizer ➤ Cell culture facility ➤ Algal culture facility ➤ Microplate reader ➤ Sonicator

School of Chemistry

S.No	Name of Faculty Member	Department	Area of Expertise for Internship	Facility available in the Department/School/Lab
1	Dr. G. GNANA KUMAR	Physical Chemistry	Fuel Cells, Batteries, Electrochemical Sensors	3-Electrochemical work stations, 2- Fuel Cell Test Stations, Electrospinning, Chemical vapor Deposition, Muffle furnace, Laminar flow hood
2	Dr.M.Jeyanthinath	Materials Science	<p>Synthesis of Nanomaterials and thermo electric materials.</p> <p>Fabrication of Dye sensitized solar cell device.</p> <p>Fabrication of Supercapacitor and electrochemical studies.</p> <p>Dye and Drug Degradation using Photocatalytic materials.</p> <p>Electrochemical etching for nanostructure formation in various Silicon materials.</p> <p>High entropy alloy formation</p>	<p>Magnetic stirrers and Muffle furnace, Probe Sonicator, Autoclave.</p> <p>Solar cell fabrication and testing laboratory</p> <p>CH Instruments.</p> <p>UV – Visible.</p> <p>Spectroscopy.</p> <p>Electrochemical etching setup.</p> <p>Furnance, bellet press etc.</p>
3	Dr.J.Annaraj	Materials Science	Drug Delivery, Biosensor, Bioinorganic chemistry, Photocatalysis, Nanocomposites	Probesonicator, Diode-Array, cyclic voltammetry
4	Dr.Sivakumar	Organic Chemistry	Organic Synthesis, photo chemistry	NMR, UV-Fluorescence, GC-MS
5	Prof.V.S.Vasanth	Natural Products Chemistry	Electro chemical optical biosensors, Photocatalyst	UV-VISIBLE NIR, UV – visible spectroscopy, Electrochemical work station (SP – 150,300)
6	Dr.P.Suresh	Organic Chemistry & Photo physical studies of supermolecules	Medicinal Chemistry	NMR, GC-MS 7
7	Dr.V.Padmini	Organic Chemistry	<ol style="list-style-type: none"> 1. Synthesis of Heterocyclic compounds 2. Chemosensor, Biosensor 	1.UV-VIS spectroscopy, 2. Fluorescence Spectroscopy, 3. Nuclear Magnetic Resonance Spectroscopy, 4. GC-MS, 5.BET, 6. Photoluminescence Spectroscopy

School of Physics

S. No	Name of Faculty Member	Department	Area of Expertise for Internship	Facility available in the Department/School/Lab
1	Dr.Sujin P. Jose Assistant Professor & Head (i/c)	Computational Physics, School of Physics	Energy Materials, Supercapacitors, Batteries, Biomedical Applications, Environmental Remediation	Supercapacitor Fabrication Unit <ul style="list-style-type: none"> ✓ Glove Box ✓ Coin Cell Crimping Machine ✓ Automatic Film Coater ✓ Electric Hot rolling Press ✓ Analytical Balance for electrode weighing ✓ Electrochemical work station charge-discharge unit (Bio-Logic SAS –France) ✓ Electrochemical workstation (CHI6008E) • High-temperature tubular furnace • Vacuum Oven • Workstation for Computational Study • Magnetic stirrer with hot plate • Magnetic stirrer • Ultrasonicator • Centrifuge • Distillation unit • Hot air oven • Argon cylinder 47 liter Argon-Hydrogen Mixture gas 47 Ltr. (94% -Ar & 6% - H₂) (• Stainless Steel Argon Gas Cylinder (99.999%)
2	Dr.A.Basherr ndin Mahmud Ahmed	Theoretical Physics	Quantum INFORMATION, Quantum Computation	Theoretical Work

School of Information Technology

S. No	Name of Faculty Member	Department	Area of Expertise for Internship	Facility available in the Department/School/Lab
1	Dr.R.Rathinas abapathy	Department of Computer Applications	Machine learning(using python), Image processing(using python and opencv), Web technology(using php,html,css,mysql,node js etc.), Data mining, text mining, NLP (using python), Distributed computing using Hadoop and Hadoop ecosystems.	The facilities are available in the department of computer applications and RUSA laboratory.

School of Earth and Atmospheric Sciences

S. No	Name of Faculty Member	Department	Area of Expertise for Internship	Facility available in the Department/School/Lab
1	Dr.Suja Rosa	Environmental Remote Sensing and Catography	Remote sensing, GIS and GPS technologies	Maps as hard copies and soft copies, Census data, Digital Atlas for 10 southern districts of Tamilnadu, GIS software, GPS Equipment, Total station, GPR equipment.

School of Energy, Environment and Natural Resources

S. No	Name of Faculty Member	Department	Area of Expertise for Internship	Facility available in the Department/School/Lab
1	Dr.S.Kannan	Environmental Studies	Water ans waste water treatment, home gardening, medicinal plants probagation	Lab and Field facility
2	Dr.M.Anand	Marine and Coastal Studies	Aqua Culture, Climate change and Ocean acidification	Marine field research facility at Pudumandabam, Ramnad

School of Linguistics and Communication

S. No	Name of Faculty Member	Department	Area of Expertise for Internship	Facility available in the Department/School/Lab
1	Dr.S.Ngarathinam		Mobile Media Content Creation	Media Skill Lab
2	Dr.K.Umaraj	Linguistics	Translatrion, Natural Language Processing	Computer Lab
3	Dr.J.Balasubramani am	Journalism and Science Communication	Photography, Videography, Film Studies, Reporting and Editing, Media Economics, Media Management, New Media, Social Media and Film Editing	Computer Lab, Digital Camera, Video catching camera, Editing Facility

School of Performing Arts

S. No	Name of Faculty Member	Department	Area of Expertise for Internship	Facility available in the Department/School/Lab
1	Dr. C. Justin Selvaraj	Department of Fine Arts and Aesthetics	Visual Ethnography, E-Content Making, Entreprenerial Skills to Traditional Craftsmanship Kinship Studies, Socio-Cultural Anthropology, Folk Culture Studies, Palmyra Palm Leaft Arts, Aesthetics of Communication.	Platform for Content making, Provision for Coordinating Fieldwork and so on.
2	Dr.T.Gopinath	Folklore and Cultural Studies	Documentation culture items, Ethnography research and field methodology, Folklore field methodology	Lectures can be provided

Centre for Tourism and Hotel Management

S. No	Name of Faculty Member	Department	Area of Expertise for Internship	Facility available in the Department/School/Lab
1	Dr.S.Praveen Kumar	Tourism and Hotel Management	Entrepreneurship in Food quality management & tourism management	Hotel management Lab and Food Lab

School of English and Foreign Languages

S. No	Name of Faculty Member	Department	Area of Expertise for Internship	Facility available in the Department/School/Lab
1	Dr.R.Rajesh	English Language Studies	Communicative Competence in English, English Language Teaching Methods, Techniques and Strategies, Language Lab, Spoken English, Technology got Teaching – Learning English, Micro-teaching Skills, English for Competitive Exams	Smart Classroom – 2 (Each with 18 Seating capacity) Language Lab (14 systems) Classroom with 30 movable chairs

Centre for Film and Electronic Media Studies

S. No	Name of Faculty Member	Department	Area of Expertise for Internship	Facility available in the Department/School/Lab
1	Dr.IIamparithi	Film and Electronic Media Studies	Cinematography, Video Editing, Sound recording and DTS mixing, Photoshop, Color grading, Short film making, Ad film making	Available

***Note – For other Faculty members, Departments and Schools, please visit MKU website pages.**
