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1.	Shashi Poddar	Intelligent Machines and Communication Systems (IMCS)	shashipoddar@csio.res.in	01722672-235		Room no.215, Library block	Computer vision, Drone analytics, artificial intelligence	Our group works in the area of tracking of aerial and ground objects from the aerial drone platform, UAV intelligence, and developing vision systems for autonomous vehicles.
2.	Vikash Chandra	CSIO Analytical Facilities (CAF)	vikash.chandra@csio.res.in	01722672327		Room no 103, Library Block, CSIR-CSIO, Chandigarh	Electronics and communications, Electrical and electronics, Instrumentation engineering	Design of components for high-speed atomic force microscopy, Nano positioning stage.
3.	Divya Agrawal	Imaging, Avionics, and Display Systems (IADS)	divyaagrawal@csio.res.in	202		Room 13-14	Electronics/Instrumentation	Research work includes avionics instrumentation. Avionics instrumentation is a challenging field of research, which involves working electronic systems used for military aircrafts. Also, developing solutions for aviation maintenance and other augmented reality applications.
4.	Mukesh Kumar/Amarendra Goap	Centre of Excellence for Intelligent Sensors and Systems (ISenS)	kumarmukesh@csio.res.in	343		Room No 4, iSenS Division CSIO	CS/IT or any software background student	We are working on Non-Intrusive Load Monitoring based energy management.




5.	Kamlesh Kumar	Materials Science & Sensor Applications (MSSA)	kamlesh.kumar@csio.res.in	+919024433321		CSIR-CSIO, Sector 30 C, Chandigarh	Chemistry, Nanotech, Biotech, Materials science	Group is working on smart materials
6.	Manjeet Singh	Biomedical Applications (BMA)	Manjeet@csio.res.in	2672409		Room No. L214, Library Block	B.Tech/M.Tech in Computer Science (working knowledge in Unity3D,C#, .NET & python is preferred)	Development of software systems for neuro-motor rehabilitation
7.	Dr. Manoj Kumar Bhuyan	Manufacturing Science and instrumentation (MSI)	manoj.bhuyan@csio.res.in	0172-2672-313		CSIR-CSIO, MSI Division, Laser lab	Laser micromachining, Optical Imaging and microscopy, Laser instrumentation	The research activities of this laboratory are primarily based on laser beams. We exploit the micro and Nano-scale manufacturing capability of ns and Fibre laser. We also develop novel imaging and microscopy techniques.
8.	Dr. Neelam Kumari	Thin Film Coating Facility (TFCF)	neelamk7@gmail.com	9216118231		Thin Film Coating Facility, CSIR-CSIO	MSc Physics, B Tech Mechanics, M. Tech nanotechnology	Energy materials, thin films for thermal management and other application


9.	Dr. Pooja Devi	Materials Science & Sensor Applications (MSSA)	poojaiitr@csio.res.in	320		Technology Block, Room T-210	Materials Science, Chemistry, Chemical Engineering, Physics	Our research group is actively engaged in developing materials and devices for Energy and Environmental Applications with a specific focus on WATER/WASTEWATER, GREEN HYDROGEN and INDOOR AIR. We are a team of interdisciplinary people having research interest in developing innovative solutions/technologies through MATERIALS ENGINEERING. Group Website: <a href="https://sites.google.com/view/drpoojaslab/home?authuser=2">https://sites.google.com/view/drpoojaslab/home?authuser=2</a>
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10.	Dr. Inderpreet Kaur	Material Science and Sensor Application	Inderpreet@csio.res.in	482		T-212, Technology Block CSIRCSIO, sector 30C Chandigarh	Physics, Biochemistry/ Biotechnology, Nanoscience and nanotechnology, Electronics	Biosensors, Nano devices and Nano electronics from Graphene Thin films, Study of Physics at nanoscale, Quantum mechanical Phenomena's, Material characterization
11.	Dr Sudeshna Bagchi	Materials Science & Sensor Applications (MSSA)	Sudeshna_bagchi@csio.res.in	426		Room No. T 208, Technology Block, 2nd floor, CSIO	Electronics /Instrumentation	Our group is involved in sensor design and system development for different applications such as food Quality, water quality, photo plethysmography etc. We are involved in system modelling as well as embedded system development


12.	Dr. Suman Singh	Materials Science & Sensor Applications (MSSA)	<a href="mailto:ssingh@csio.res.in">ssingh@csio.res.in</a>	231		MRD, Ground Floor, R.No 1	Chemistry, Bio/Nanotechnology, Food Biotechnology, Chemical Engineering	Chemo-biosensors for environmental pollutants & disease biomarkers, Antimicrobial and anticorrosive coatings, photo-electro catalysts for energy applications.
13.	Ritesh Kumar	Centre of Excellence for Intelligent Sensors and Systems (ISenS)	riteshkr@csio.res.in	489		In front of T317, third floor Tech block, CSIO Sec 30 C Chandigarh	Machine learning, Computer Science, Electronics, Instrumentation, IT	The group works on time series modelling, Deep Learning applications, topological learning, breath monitoring, taste analysis
14.	SANJEEV VERMA	Biomedical Applications (BMA)	sanjeevverma@csio.res.in	227		Biomedical Applications, Library Building, 3rd floor, Room No. L301	Mechanical design, Fabrication	Development of devices related to Biomedical Applications





15.	Dr. C. Sethuraman	Energy Management Technologies (Chennai Centre)	sethuenergy@csircmc.res.in	044-22544637		Room No. F55, CSIO Chennai Centre	Energy Management Technologies, Performance Testing of Electrical and Thermal Utilities (Motor, Pump, Compressor, Transformer, Air-Conditioning System, Boiler, Furnace, Economiser, Heat Exchangers) and Efficiency Improvement, Renewable Energy System (Solar, Wind and Biomass to Fuel Conversion), Energy Audit, Building Energy Management System, Reactive Power Management, Hybrid Energy System Simulation	Energy Management Technologies
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16.	Harry garg,	Manufacturing Science and instrumentation (MSI)	harry.garg@csio.res.in	207		3d printing area	Mechanical electronics aeronautical	Manufacturing
17.	Dr. Sanjeev Kumar	Biomedical Applications (BMA)	viridi205@csio.res.in	01722672228		Room No. L208, Library Block, CSIR-CSIO, Chandigarh	Electronics/Instrumentation/ Computer Science/Bio medical Instrumentation on/Embedded Systems	Biomedical Signal processing for Diagnostic, Prosthetic and non-invasive measurement
18.	S. Anup Chander	Manufacturing Science and instrumentation (MSI)	anup@csio.res.in	469		Room no. L206, Library block, CSIR-CSIO	Mechatronics / Mechanical	Design of Drone based harvesters, Smart Prosthetics
19.	Saurav Kumar	--	--	--	--	--	Biotechnology/Nanotechnology/Electronics	Device development based on Biopolymers

20.	Dr. Aparna Akula	Centre of Excellence for Intelligent Sensors and Systems (ISenS)	aparna.akula@csio.res.in	9569213045, 347		Room No. 6, ISenS building	Thermal Imaging, Computer Vision, Machine and Deep Learning, Embedded Vision, Predictive Maintenance & NDT	Research in the area of Infrared Image Analysis and Processing Systems. Currently focusing on Object detection, recognition and tracking for a number of applications such as wildlife monitoring, perimeter monitoring, aerial surveillance.
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21.	Dr. Manoj K. Nayak	Materials Science & Sensor Applications (MSSA)	mknayak@csio.res.in	+911722672204		#T-204, MSSA, CSIR-CSIO, Sector 30-C, Chandigarh-160030	Chemical/Bio-/Food/Nano Technology/ Material Science and Engineering	<p>Current Area of Research:</p> <ul style="list-style-type: none"> <li>• Edible Coatings and Films (ECF) from antimicrobial conjugated biopolymers</li> <li>• Magnetic recyclable ion exchange resins/membranes</li> <li>• Nano-adsorbents and Nano-catalysts for water/wastewater remediation</li> <li>• Molecularly imprinted polymer (MIP) nanomaterials &amp; Nano-biomimetic-MIP sensors</li> </ul>
22.	Neelesh Kumar	Biomedical Applications (BMA)	neel5278@csio.res.in	278		L301, Biomedical Application Group	BTech and Mtech (electronics/c computer/mechanical)	The group is involved in two broad activities, developing wearable sensor systems for human biomechanics (Gait analysis) and use of virtual/augmented reality applications for healthcare.
23.	Naveen Sharma	Biomedical Applications (BMA)	Naveensharma@csio.res.in	211		L308, Library Block 3rd Floor	CS/ECE/Mechanical	Computer Vision, Machine/Deep Learning, 3D Designing,



24.	Dr. Manoj K. Patel	Manufacturing Science and instrumentation (MSI)	manoj_patel@csio.res.in	459		T-14, Ground Floor, Technology Block, CSIR-Central Scientific Instruments Organisation, Sector 30, Chandigarh - 160030	Electronics, Instrumentation, Artificial Intelligence, Machine Learning, Robotics, Environment, Food Technology, Biotechnology, Industrial Microbiology or equivalent	<p>Interdisciplinary and Applied Research (IAR) group is majorly engaged in research and development of advanced scientific instruments and technologies of societal and industrial importance. The group is a multi-disciplinary in nature having state-of-the-art facilities manned by highly qualified and well trained staff and research scholars. Some of the activities initiated very recently are indoor light harvesting, fire retardant materials for nanogenerators, UAVs, AI, ML and aerial electrostatic spraying technology. The major research and development activities with Interdisciplinary and Applied Research group are: 1. Artificial Intelligence and UAVs: Aerial electrostatic spraying, moisture measurement, UAVs, automation and mechanization, artificial intelligence and machine learning. 2. Environment: Dust mitigation and smog control, air purification and electrostatic precipitation technology. 3. Food Safety &amp; Nutrition: Advanced spray coatings, novel edible coating materials for enhanced shelf-life, nutritional value and sensory attributes. 4. Green Energy: Indoor light harvesting, Nanogenerators and hydrogen generation and storage. 5. Healthcare: Surface decontamination and sterilization, aerosol generation, electrostatic spraying for sanitization</p>
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25.	Arindam Chatterjee	Biomedical Applications (BMA)	Arindamchatterjee@csio.res.in	01722672466		Room No. 305; Biomedical Application, CSIR-CSIO, Chandigarh	CSE, ECE, EI	Biomedical Device and Imaging Application
26.	SAURAV KUMAR	Materials Science & Sensor Applications (MSSA)	sauravpandey@csio.res.in	+919023519487		CSIR CSIO Sector 30C	Electronics, Mechanical and Biotechnology	Device development of quality estimation of biopolymer, taste analysis of food and beverages.
27.	Dr Umesh Kumar Tiwari	Micro & Nano Optics Centre (MNOC)	umeshtiwari@csio.res.in	09417685208		T-11A	Optics, Photonics, Optoelectronics, Physics, Electronics	Information is available on CSIO webpage
28.	Dr. Manish Kumar	CSIO Analytical Facilities (CAF)	manish@csio.res.in	9417727731		Room No. 1, Round Building, CSIR-CSIO, Sector-30 C, Chandigarh - 160030	Materials Science	Characterization of nanomaterials and applications





29.	Girish Chandra Mohanta	--	--	--	--	--	Biochemistry, Biotechnology, Chemistry, Nanoscience and Nanotechnology	Working towards development of optical biosensors. The activity includes chemical modification of sensor surface, bio conjugation reactions, nanomaterial synthesis, and sensor performance characterization.
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30.	Dr. Avishek Saha	--	--	--	--	--	Material chemistry	Optical sensing and catalysis based on Nano carbons
31.	Dr. Preetismita Borah	CSIO Analytical Facilities (CAF)	preetismita@csio.res.in	07002937 637		Ground floor, Room no. 9, Library block	Detection and removal of heavy metal ions, IC and spectrophotometric methods to determine nitrogen species and develop a new in situ method for hydroxylamine measurement, synthesis of materials	Detection and removal of heavy metal ions, Synthetic method development



32.	Vijay Kumar Meena	Manufacturing Science and instrumentation (MSI)	vijaykumar@csio.res.in	464		iARM Lab	Additive Manufacturing, FEA	R&D of Medical Implants
33.	Dr. Sachin Tyagi	--	--	--	--	--	Material Science and Physics	Working on magnetic and Dielectric Material for microwave absorption application
34.	Dr. Prashant Kumar	Intelligent Machines and Communication Systems (IMCS)	prashantkumar@csio.res.in	+9178140 47689		Room No: T-207, Technology Block	Computer Science & Engineering, Electronics, Environmental Science	Computer Science & Engineering, Electronics, Environmental Science



35.	Dr. Abhay Sachdev	Materials Science & Sensor Applications (MSSA)	abhay.sachdev@csio.res.in	382		Room no. 305 technology block, Third floor	Nanotechnology, Biotechnology, Chemistry, Materials Science	Bio sensing, Nanomaterials synthesis, Ant biofouling, Microfluidics
36.	Dhairya Singh Arya	Micro & Nano Optics Centre (MNOC)	dhairya@csio.res.in	359		Room No L201	Electronics, mechatronics , ECE, VLSI	Design and Simulation of Sensors and Devices.





37.	Raj Kumar	Micro & Nano Optics Centre (MNOC)	raj.optics@csio.res.in	308		Room No. T5, Ground Floor, Technology Block	Physics, Optics, Optoelectronics, Laser Physics, Photonics	Working in the area of Holography, Interferometry, 3D Displays, Holographic (optical) Sensors
38.	Dr. Ripul Ghosh	Centre of Excellence for Intelligent Sensors and Systems (ISenS)	ripul.ghosh@csio.res.in	346		iSenS, Room No-10	Signal processing, Machine Learning, Embedded Video Processing	Working in the area signal processing, edge computing, machine learning using seismic, acoustic signals, embedded video processing.
39.	Dr Amit Laddi	Imaging, Avionics, and Display Systems (IADS)	amitladdi@csio.res.in	203		L303-304	Electronics/ Instrumentation/Computer Science/ Mechanical Engineering	Image-guided assistive techniques for clinicians Gesture/gaze-based solutions Embedded Vision/Edge Computing Image and video analytics and Instrumentation CAD design
40.	Satya Pratap Singh	Micro & Nano Optics Centre (MNOC)	sp Singh@csio.res.in	8318518016		Micro and Nano Optics Centre	Photonics (Simulation or Experiment)	Waveguide fabrication and simulation for frequency generation

41.	Srikanth Vasamsetti	Energy Management Technologies (Chennai Centre)	srikanth.vasamsetti@csio.res.in	8968190864		Door No 54, CSIO Chennai Centre	Image processing, Video processing and Artificial Intelligence	Image processing, Video processing and Artificial Intelligence
42.	AMITAVA DAS	Intelligent Machines and Communication Systems (IMCS)	adas@csio.res.in	09876273772		Head, IMCS Grp, (Room# L203), Library Block, CSIRCSIO, Sector 30C, Chandigarh	Computer Science & Engineering, Electronics and Communication Engineering, Electrical Engineering	Automation, IoT, Imaging applications, Artificial Intelligence


43.	Ranjan Jha	Biomedical Applications (BMA)	ranjan.jha@csio.res.in	261		L-310 Library Block	Electronics/Mechatronics/ Mechanical/ Computer Science	<p>Computer Science</p> <p>IOS/android app development for interfacing Bluetooth/wireless module with automated eye moisturizing device</p> <ul style="list-style-type: none"> <li>▢ Design and development of software for slicing the CAD stl model into machine axis motion for SLA 3D printer</li> </ul> <p>Mechanical/Mechatronics</p> <ul style="list-style-type: none"> <li>▢ Design and development of 5-axis mechanism for Bio-3D printing application</li> <li>▢ Prototype development of the SLA 3D printer with bigger base plate.</li> </ul> <p>Electronics</p> <p>Linear and non-linear motor controller design</p>
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44.	Dr. Vipin Kumar	Imaging, Avionics, and Display Systems (IADS)	vksehjal@csio.res.in	208		217, Lib Block	Embedded Electronics and Avionics	Avionics Display systems
45.	Dr. Sudipta Sarkar Pal	Micro & Nano Optics Centre (MNOC)	sudipta@csio.res.in	09501456736		Room no. T12, Technology Block, Micro Nano Optics Centre, CSIR-CSIO	Physics, Nanoscience & Nanotechnology	Micro and Nano patterning on surface to control light-matter interaction for development of sensor, photonic devices.

46.	BHARGAB DAS	Micro & Nano Optics Centre (MNOC)	bhargab.das@csio.res.in	286		T-6	Physics	Optical properties at micro & nanoscale, micro-Nano patterning, Nano photonics, meta materials,
47.	Sanjeev Soni	Biomedical Applications (BMA)	ssoni@csio.res.in	01722672385		Library block, 3rd Floor, Room no. 302	Mechanical Engineering (Design, Thermal), Biomedical, Nanotechnology, Optics	Our research group works on biomedical applications of plasmonic photo thermal phenomenon, which involves use of light and nanoparticles for heat generation in a medium. Research interests include Biomedical Device design (Mechanical design & Thermal engineering), Plasmonic Photo thermal Therapeutics, Biological Heat Transfer, Nano-Bio Photonics, Photo thermally enhanced antimicrobial efficacy and photo thermally modulated localized drug delivery.





48.	Dr. Neerja Garg	Imaging, Avionics, and Display Systems (IADS)	neerjamittal@csio.res.in	276		L-314, Library Block	Computer/Electronics/Instrumentation/I T/Web Applications	Computer vision and ML/DL applications in autonomous vehicles, colour/data measurements and analysis, image-processing applications. Web/Mobile application, animations/games development
49.	Dr. SHRAVAN KUMAR RR	Imaging, Avionics, and Display Systems (IADS)	srr@csio.res.in	01722672476		Room No. 9, IADS	Mechanical, OptoMechanical Design & fabrication , Imaging Optics	Our group is engaged in Imaging, Avionics & Display Systems Development activity.
50.	Dr. Vinod Mishra	Mechanical Design & Fab Facility (MDF)	Vnd.mshr@csio.res.in	478		National Aspheric and Freeform optics facility	Mechanical Engineering, Optical Engineering	Ultra-precision machining, Nanoimprinting, Micro/Nano Texturing, Surface finishing, Advance optics manufacturing i.e. Freeform, Off-axis, Diffractive, Micro optics
51.	Siddhartha Sarkar	Centre of Excellence for Intelligent Sensors and Systems (ISenS)	ssarkar@csio.res.in	01722672(345) ; 9062567840		Room No. 1, Intelligent Sensors and Systems Laboratory, CoE-ISenS, CSIR-CSIO, Sec 30-C, Chandigarh 160030	Electronics Engineering, Mechatronics , Computer Science Engineering, Instrumentation Engineering	We are engaged in developing reconfigurable embedded systems using ARM and FPGA SoCs for signal processing and online machine inferencing for different sensing modalities.  Graphics rendering on ARM using OpenGL and high-level synthesis, or RTL on VITIS platform.  Various types of sensor integration with Drone platforms and drone detection is recently takenup.

52.	Nalini Pareek	Micro & Nano Optics Centre (MNOC)	np@csio.res.in	09571368825		CSIR-CSIO	RF Engineering / Plasmonic Antenna Design	Plasmonic and Metamaterial devices and micro Nano fabrication
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53.	Dr. Vishal S. Chandane	Business Development & Project Management Group (BDPM)	vishal.chandane@csio.res.in	7038857627		Technology Block First Floor	Chemical Engineering	Extraction Process Design
54.	Hemant Singh Ajal	Imaging, Avionics, and Display Systems (IADS)	hemant.ajal@csio.res.in	208		Room nos.: 316 Library Block third floor	Embedded Systems, Image Processing, Python program,	Group is involved in development of head up display and electronics.
55.	Surjit Kaman	Micro & Nano Optics Centre (MNOC)	surjitkaman@csio.res.in	341		T-10, Ground Floor, Technology Block	Mechanical Engineering, Mechatronics ;Electrical, Electronics	Fiber optic sensor /Laser based sensor development for physical and chemical sensing
56.	Dr Babankumar S Bansod	Materials Science & Sensor Applications (MSSA)	scientist_babankumar@csio.res.in	461/284		Lab 310	Electronics/Instrumentation /Computer Science/equivalent	IoT based Jal Jeevan Mission, Cloud, Data Analytics, Smart Sensor -system

57.	Dr. Vinod Parmar	Micro & Nano Optics Centre (MNOC)	vinodparmar@csio.res.in	359		Technology Block, First Floor, CSIR-CSIO, Sector-30C, Chandigarh	Mechanical Engineering, Physics (Optics & Lasers), Material Science	Microfluidics, SERS substrate, Silicon Photonics
58.	NISHA YADAV	Intelligent Machines and Communication Systems (IMCS)	nisha.yadav@csio.res.in	8168316328		L-213	Electronics/Mechanical /Computer science or engineering	Metamaterial lenses for compact devices and systems, low-profile antennas, high-resolution imaging, and smart information/communication systems (especially for upcoming 5G/6G technology). Metamaterial absorbers for stealth applications
59.	Tejpal Singh	Intelligent Machines and Communication Systems (IMCS)	tejpal@csio.res.in	338		Seismic Observatory, CSIR-CSIO	Earth Sciences, Computer Science, Remote Sensing.	Crustal Deformation, Seismic Hazard, Climate Change and Data Analytics
60.	Ishani	Micro & Nano Optics Centre (MNOC)	ishani@csio.res.in	NA (8278837853)		Technology block, ground floor, Room no T-16	Optics , electro-optics , Physics , computational physics	Optical system design (visual and infrared), optical instrument design , Tuneable lenses, Other group projects of the department

61.	V D Shivling	Intelligent Machines and Communication Systems (IMCS)	vvdatta@csio.res.in	237		L 205, LIBRARY BLOCK	ELECTRONICS, ELECTRONICS & COMMUNICATION, INSTRUMENTATION, COMPUTER SCIENCE	Energy, Environment and Natural Resources, AGRICULTURE INSTRUMENTATION, Snow Parameters monitoring and impact of Climate Change, Earthquake Monitoring and Hazard
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62.	Dr. Rishemjit Kaur	Centre of Excellence for Intelligent Sensors and Systems (ISenS)	rishemjit.kaur @csio.res.in	489		T-317, 3rd Floor, technology block, CSIRCSIO	Machine learning, artificial intelligence, big data analytics, natural language processing, electronics, instrumentation, computer science	work on development of deep learning and machine learning techniques for disciplinary applications in the area of health, nutrition, agriculture, translation software's
63.	Ashish Gaurav	Centre of Excellence for Intelligent Sensors and Systems (ISenS)	aashish_garv @csio.res.in	259		Room no 202, Library block, CSIO Chandigarh	Embedded System Design	We are working in the field of next generation display systems, sensor network for security, IoT, Crossover embedded processor and FPGA
64.	MAMTA SHARMA	Intelligent Machines and Communication Systems (IMCS)	mamta_sharma@csio.res.in	9781341166		room no:207, second floor, library block	Software Development , Image processing, Secure Data communication, Machine vision, Block chain.	Software/Application development for agri-domain, software testing & implementation, and secure data communication for 6G networks.
65.	Dr. Jitendra Virmani	Indo Swiss Training Centre	jitendravrmani@csio.res.in	8427593840		Room No 102, 1 <sup>st</sup> Floor, ISTC Main Building.	Application of Machine Learning & Deep Learning For Analysis and Classification of Medical Images	Research Work includes Application of Machine Learning and for Analysis and classification of Medical Images



66.	Dr. Sandeep Sahu	Manufacturing Science and instrumentation (MSI)	<a href="mailto:sandeepsahu@csio.res.in">sandeepsahu@csio.res.in</a>	0172-2672 340		T-14, Ground Floor, Technology Block, CSIR-CSIO, Sector 30, Chandigarh - 160030.	Mechanical, Materials Science, Computer Science, Electronics, and Biotechnology, Artificial Intelligence/ Machine Learning, any other branch with some knowledge on any programming language	Multi-material additive manufacturing (3D printing), Severe plastic deformation, Microstructure engineering, 3D food printing. Furthermore, I'm interested on the integration of Artificial Intelligence, Machine Learning, and Image processing to develop automated solutions for surface defect detection in manufacturing industries.
67.	Dr Anupma Sharma	CSIO Analytical Facility	<a href="mailto:anupma@csio.res.in">anupma@csio.res.in</a>	0172-2672401		GF-08, Old canteen	Chemistry, Biochemistry, Biotechnology, Food Chemistry, Analytical Instrumentation	I am having expertise in the area of High-Performance Liquid Chromatography (HPLC), Gas chromatography (GC) and various analytical techniques related to food quality measurements. Our group is focussing on the new technologies for the food, water quality testing.