

**AFTER APPLYING ONLINE, THE CANDIDATES SHOULD KEEP A DOWNLOADED SOFT COPY OF HIS / HER APPLICATION. THEY SHOULD NOT SEND ANY HARD COPY OF APPLICATION AFTER ITS SUBMISSION. CANDIDATES SHORTLISTED FOR INTERVIEW ALONE WOULD BE ASKED, AT AN APPROPRIATE TIME, TO SUBMIT THE HARD COPY OF THEIR APPLICATION.**

**3. Vacancies, Reservation, Age Limit, Area, Essential / Desirable Qualification & Job requirement:**

Sl. No	Post name Post Code Vacancy Reservation	Theme & Area Age Limit not exceeding	Essential Educational Qualification & Experience	Desirable Qualification / Experience	Job specification
1.	<b>Scientist</b> <b>S2401</b> <b>01 Post</b> <b>UR</b>	Theme: New Materials Apparel Science & Technology 32 Years	M.E / M.Tech or equivalent (e.g., integrated M.Tech, Dual degree B.Tech & M.Tech) in the areas of Apparel Technology / Apparel Design from a recognised University.	M.E./M.Tech or equivalent with B.E or B.Tech in Textile Engineering / Textile Technology / Fashion Technology / Leather Technology / Apparel Technology.  Experience in Product development / Technology innovation / Applied technology in the area of Apparel / Garments as evidenced from patents / publications (SCI indexed journals)	To carry out Research and Development in the area of Leather apparel, Protective apparel, Apparel for strategic sector, Smart garments, Apparel with technical textiles.  To carry out independent/team research with the potential of securing and sustaining independent extramural funding to fulfil the mandate of institute.  To lead the research / testing environment in the area.  Any other responsibilities assigned by the competent authority.
2.	<b>Scientist</b> <b>S2402</b> <b>01Post</b> <b>SC</b>	Microbiology Theme: Quality Assurance 37 Years	Ph. D thesis submitted in Microbiology / Life sciences in the area of basic and applied microbiology from a recognized University.	Ph. D research in the area of Microbial Taxonomy / Molecular Biology / Identification and microbial testing, method and Tool development / Modern Techniques for Microbial Preservation and Conservation, Leather microbiome.  Post-doctoral research experience in the above mentioned area. Research publications in high impact factor journals.  Experience in product Development / Technology Innovation / Applied Technology in relevant area.  Capability to carry out independent research.	To carry out Research and Development of microbes, microbial methods, animal skin and leather microbiome research and applied microbial research. Preparation, extraction and characterization of various enzymes for leather manufacturing, and tannery wastewater and solid waste treatment.  To carry out independent/team research with the potential of securing and sustaining independent extramural funding to fulfil the mandate of institute.  To lead the research / testing environment in the area.  Any other responsibilities assigned by the competent authority.

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3.	<b>Scientist</b>  <b>S2403</b>  <b>03 Posts</b>  <b>[UR – 1, OBC – 1, ST – 1]</b>	Leather Technology / Footwear Science  Theme: Quality Assurance  [32 years for UR,  35 years for OBC and  37 years for ST]	M.E / M. Tech or equivalent in the area of Leather Technology / Footwear Science & Engineering / Footwear Engineering & Management from a recognized University / Institute.	Ph. D in Leather Technology / Footwear Technology.  Candidates having research experience in footwear, footwear components, footwear materials, leather and non-leather products including quality assurance demonstrated by their research publications in SCI journals and / or patents and / or industrial experience in above mentioned area.  Post-doctoral experience in the above-mentioned area.  Experience in product development / technology innovation / applied technology in the relevant area as demonstrated by the commercialisation of the product / technology.  Demonstrated capability in handling individual R&D projects.  Candidates with training in laboratory quality management systems as per ISO 17025:2017, including legal metrology and traceability.	To carry out Research and Development of new test methods and equipment for footwear testing.  To carry out independent/team research with the potential of securing and sustaining independent extramural funding to fulfil the mandate of institute.  To lead the research / testing environment in the leather and non-leather products.  Provide troubleshooting and critical evaluation to the industrial clientele through solution-based research dissemination.  HRD activities including practical demonstrations and training.  To carry out work towards technology dissemination / building quality assurance.  Any other responsibilities assigned by the competent authority.
4.	<b>Scientist</b>  <b>S2404</b>  <b>01 Post</b>  <b>SC</b>	Inorganic Chemistry  Theme: Core basic Sciences.  37 Years	Ph. D thesis Submitted in Chemical Sciences from a recognised University	Ph. D in the area of Co-ordination chemistry, Transition metal complexes, Metal complex reactivity, Spectroscopic characterization techniques as evidenced from papers published in SCI journals and / or patents in these areas.	To carry out Research and development in synthesis of inorganic complexes for leather processing.  To carry out independent/team research with the potential of securing and sustaining independent extramural funding to fulfil the mandate of institute.

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				<p>Post-doctoral experience in the above mentioned areas.</p> <p>Experience in Product development / Technology innovation / applied technology in the above mentioned areas</p> <p>Demonstrated capability of handling individual R&amp;D projects.</p>	<p>To lead the research / testing environment in the area.</p> <p>Any other responsibilities assigned by the competent authority.</p>
5.	<p><b>Scientist</b></p> <p><b>S2405</b></p> <p><b>01 Post</b></p> <p><b>UR</b></p>	<p>Physical Chemistry</p> <p>Theme: Core basic Sciences</p> <p>32 Years</p>	<p>Ph. D thesis Submitted in Chemical Sciences from a recognised University</p>	<p>Ph. D in the area of colloidal chemistry, surface science, and experimental techniques in interfacial chemistry as evidenced from papers in SCI journals and / or patents in these areas.</p> <p>Post-doctoral experience in the above mentioned areas.</p> <p>Experience in Product development / technology innovation / applied technology in the above mentioned areas.</p> <p>Demonstrated capability of handling individual R&amp;D projects.</p>	<p>To carry out Research and development in synthesis of emulsifiers for leather chemicals, diffusional properties of chemicals, surface modification of leather / textiles / leather-like materials.</p> <p>To carry out independent/team research with the potential of securing and sustaining independent extramural funding to fulfil the mandate of institute.</p> <p>To lead the research / testing environment in the area.</p> <p>Any other responsibilities assigned by the competent authority.</p>
6.	<p><b>Scientist</b></p> <p><b>S2406</b></p> <p><b>01 Post</b></p> <p><b>UR</b></p>	<p>Rubber Technology</p> <p>Theme: New Materials</p> <p>32 Years</p>	<p>M.E / M.Tech. (or equivalent e.g., Integrated M.Tech., Dual degree B.Tech. &amp; M.Tech.) in areas of Rubber Technology from a recognised University</p>	<p>Ph. D submitted in the area of natural / synthetic rubber Science and / or Technology.</p> <p>Research experience in fundamental and applied aspects of natural and synthetic rubber, compounding, calendaring, quality assurance, their physical and chemical modifications and various unconventional techniques to convert</p>	<p>To carry out Research and Development of rubber-based footwear components and leather-like materials for applications in life-style products including footwear, garments and goods.</p> <p>To carry out independent/team research with potential of securing and sustaining independent extramural funding to fulfil the mandate of the institute.</p>

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				<p>them into fabric / sheet materials, as demonstrated by their research publications in SCI Journals and / or Patent in the area and / or industrial experience in the above area.</p> <p>Experience in Product Development / Technology Innovation / Applied Technology in relevant area as demonstrated by the commercialisation of the product / technology.</p>	<p>To lead the research / testing environment in the area.</p> <p>Any other responsibilities assigned by the competent authority.</p>
7.	<p><b>Scientist</b></p> <p><b>S2407</b></p> <p><b>01 Post</b></p> <p><b>UR</b></p>	<p>Organic Chemistry</p> <p>Theme: Core Basic Sciences</p> <p>32 Years</p>	<p>Ph. D Thesis submitted in Chemical Sciences</p>	<p>Ph. D in synthetic organic chemistry / Natural product Chemistry (synthesis / isolation, characterization and application)</p> <p>Post-doctoral experience in the field of synthesis / isolation, characterization and application of products from synthetic / natural products.</p> <p>Proven track record in terms of publications in peer-reviewed, SCI-indexed journals and patents in the area of synthesis / isolation, characterization and application of products from synthetic / natural products.</p> <p>Experience in product development / technology innovation / applied technology in synthesis / isolation, characterization and application of products from synthetic / natural products for use in the field of leather/textile/paper.</p>	<p>To carry out Research and development focusing on the multistep reactions for isolation, characterization and application of products from synthetic / natural products for application in leather processing.</p> <p>To carry out independent/team research with the potential of securing and sustaining independent extramural funding to fulfil the mandate of institute.</p> <p>To undertake R&amp;D activities in developing leather chemicals like tanning agents, synthetic tanning agents, preservatives, etc from plant surces as raw materials and develop environmentally benign leather chemicals though novel synthetic routes and methodologies.</p> <p>To lead the research / testing environment in the area.</p> <p>Any other responsibilities assigned by the competent authority.</p>

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8.	<b>Scientist</b>  <b>S2408</b>  <b>01 Post</b>  <b>EWS</b>	Organic Chemistry  Theme: Sustainable Chemicals  32 Years	Ph. D Thesis submitted in Chemical Sciences	Ph. D in synthetic organic chemistry, particularly multistep organic synthesis of dyes / pigments / colourants.  Post-doctoral experience in the field of synthesis of dyes / pigments / colourants.  Capable of design and synthesis of organic molecules independently.  Proven track record in terms of publications in peer-reviewed, SCI-indexed journals and patents in the area of dyes / pigments / colourants.  Experience in product development / technology innovation / applied technology in dyes / pigments / colourants.	To carry out Research and development focusing on the multistep reactions for the synthesis of organic dyes, pigments, colourants and their applications in the leather and textile industry.  To carry out independent/team research with the potential of securing and sustaining independent extramural funding to fulfil the mandate of institute.  Developing new applications for the existing products.  To carry out the dye-stuff analysis / testing / validation.  Understanding the regulatory requirements for dyes / pigments.  To lead the research / testing environment in the area. Any other responsibilities assigned by the competent authority.
9.	<b>Scientist</b>  <b>S2409</b>  <b>01 Post</b>  <b>UR</b>	Analytical Chemistry  Theme: Quality Assurance  32 Years	Ph. D Thesis submitted in chemical sciences / material science / physics.	Ph. D with the core research area in high-resolution electron microscopy (TEM / SEM).  Hands-on experience in high-resolution electron microscope operation, electron microscopy techniques, and associated image analysis methods.  Experience in the sample preparation methods for high-resolution electron microscopy for the analysis samples.  Proven track record in terms of publications in peer-reviewed, SCI-indexed journals and	To carry out R&D in the fundamental and applied sciences in leather, nanomaterials, biomaterials & soft materials, primarily using high-resolution TEM/SEM.  To manage high-resolution TEM/SEM facilities and caters to the needs of the internal and external samples.  Resolve minor HR TEM/FE SEM instrument issues.  Developing novel sample preparation methods for high-resolution electron microscopy.  To carry out independent/team research with the potential of securing and sustaining

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				<p>patents centered around TEM/SEM.</p> <p>One-year post-doctoral experience in the above-mentioned areas.</p> <p>Demonstrated capability of handling individual R&amp;D projects.</p> <p>Experience in product development / Technology Innovation / Applied Technology in relevant area.</p>	<p>independent extramural funding to fulfil the mandate of institute.</p> <p>To lead the research / testing environment in the area.</p> <p>Any other responsibilities assigned by the competent authority.</p>
10.	<p><b>Scientist</b></p> <p><b>S2410</b></p> <p><b>02 Posts</b></p> <p><b>[EWS – 1, OBC – 1]</b></p>	<p>Analytical Chemistry</p> <p>Theme: Quality Assurance</p> <p>[32 years for EWS and 35 years for OBC]</p>	<p>Ph. D Submitted in Chemical Sciences from a recognized University.</p>	<p>Ph. D Thesis work in HPLC/LCMS-based method development / validation for the separation and determination of natural products / active pharmaceutical compounds / restricted chemical substances / toxic pollutants / environment pollutants / contaminants in the leather / footwear – and related products demonstrated with SCI publications.</p> <p>Post-doctoral experience in the above-mentioned area.</p> <p>Experience in product development / technology innovation / applied technology in the relevant area.</p> <p>Demonstrated capability in handling individual R&amp;D projects.</p> <p>Training on various sophisticated analytical instruments such as SPLC/LCMS/MS/GC</p>	<p>To carry out Research and development of HPLC/LCMS-based method development / validation for separation and determination of natural products / active pharmaceutical compounds / restricted chemical substances / toxic pollutants / environment pollutants such as POPs, and PAHs in various matrixes.</p> <p>To carry out independent/team research with the potential of securing and sustaining independent extramural funding to fulfil the mandate of institute.</p> <p>To lead the research / testing environment in the area.</p> <p>Any other responsibilities assigned by the competent authority.</p>

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				demonstrated through proper training certificates.  Working experience in ISO/IEC 17025 certified laboratories in the field of chemical testing and / or method development.	
11.	<b>Scientist</b>  <b>S2411</b>  <b>01 Post</b>  <b>UR</b>	Disease Biology  32 years	Ph.D. submitted in Life Sciences / Biochemistry / Biotechnology / Molecular Biology	Research experience in Protein Chemistry/Molecular genetics/biological processes at cellular and organism level /immunomodulatory functions in disease biology demonstrated by their research publications in SCI Journals and / or Patent in the area. Experience in Product Development / Technology innovation / Applied Technology	Research in the area of immunological and physiological basis of diseases in different in-vitro and in-vivo models for detailed understanding of diseases to design and develop therapeutics.
12.	<b>Scientist</b>  <b>S2412</b>  <b>01 Post</b>  <b>UR</b>	Chemical Engineering (Pilot Plant)  32 Years	M.E./M. Tech. (or equivalent e.g., Integrated M.Tech., Dual degree B.Tech. & M.Tech.) in area of Chemical Engineering / Industrial Engineering or PhD submitted in area of Chemical Engineering.	M.E/M.Tech (or equivalent) with B.E./B.Tech. in Chemical Engineering / Industrial Engineering Research experience in Process design development and scale-up, Development of multipurpose batch and continuous pilot plants, Process intensification, Flow chemistry, Pilot scale economics - as demonstrated by their research publications in SCI Journals and / or Patent in the area. Experience in Product Development / Technology innovation / Applied Technology.	Research and development in the area of pilot scale validation and translation of industrial products, enhancement of Technology Readiness Level for industrial translation.
13.	<b>Scientist</b>  <b>S2413</b>	Process Simulation  32 Years	M.E./M. Tech. (or equivalent e.g., Integrated M.Tech., Dual degree B.Tech.	Research experience in Mathematical modelling simulation and optimisation of chemical processes, Software	Research and development in Process Modelling, Reaction Engineering, Process Dynamics and Control



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	<b>01 Post</b> <b>UR</b>		& M.Tech.) in area of Chemical Engineering / Industrial Engineering or PhD submitted in Chemical Engineering.	driven analysis of reaction kinetics, Micro kinetic modelling, Process dynamics and control - as demonstrated by their research publications in SCI Journals and / or Patent in the area. Experience in Product Development / Technology innovation / Applied Technology	
<b>14.</b>	<b>Scientist</b> <b>S2414</b> <b>01 Post</b> <b>OBC</b> <b>(Backlog vacancy)</b>	Textile Fabric Materials  35 Years	M.E./M. Tech. (or equivalent e.g., Integrated M.Tech., Dual degree B.Tech. & M.Tech.) in Textile Chemistry / Fibre Science / Textile Chemical Processing OR Ph.D. (submitted) in Textile Chemistry / Fibre Science / Textile Chemical Processing	M.E/M.Tech (or equivalent) with B.E./B.Tech. in Textile Technology/ Textile Engineering Research experience in fundamental and applied aspects of textile fibre, their physical and chemical modifications and various unconventional techniques to convert them into fabric/sheet materials, as demonstrated by their research publications in SCI Journals and / or Patent in the area. Experience in Product Development / Technology innovation / Applied Technology	Research and Development of textile fabric and leather-like materials for applications in lifestyle products including footwear, garments and goods
<b>15.</b>	<b>Scientist</b> <b>S2415</b> <b>01 Post</b> <b>EWS</b>	Bio Materials  32 Years	Ph.D. submitted in Life Sciences	Research experience in Biomaterials for implant/graft design and development as demonstrated by their research publications in SCI Journals and / or Patent in the area. Experience in Product Development / Technology innovation / Applied Technology	Research, development and validation of graft materials through pre-clinical and clinical trials
<b>16.</b>	<b>Scientist</b> <b>S2416</b>	Leather Auxiliaries  32 Years	Ph.D. submitted in Chemistry or	Research experience / Industrial experience in Oil / water emulsion surfactant, wax, polish as	Research and Development of smart leather lubricants, wax, shoe polish and lacquers



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	<b>01 Post</b> <b>UR</b>		M. Tech / M.E. (or equivalent e.g., Integrated M. Tech., Dual degree B.Tech. & M. Tech.) in area of Oil / Oleo chemicals	demonstrated by their research in SCI Journals and / or Patent in the area Experience in Product Development / Technology innovation / Applied Technology	
<b>17.</b>	<b>Scientist</b> <b>S2417</b> <b>01 Post</b> <b>EWS</b>	Inorganic & Physical Chemistry  32 years	Ph.D. submitted in area of Inorganic Chemistry	Ph.D with M.Sc (Chemistry / Inorganic Chemistry) Experience in Synthetic Inorganic Chemistry. Experience in Product Development / Technology innovation / Applied Technology.	Preparation of synthetic inorganic tanning agents

**Out of 14 posts, two posts are reserved for PwD-HH (Hearing Handicapped means Hearing Impairment) & PwD-OH (Orthopedically Handicapped) except the posts at Sl No. 1, 3, 6 and 12.**

**Reservation for Persons with Disability:** All the above posts, except the posts at Serial Numbers 1,3, 6 and 12 are identified suitable for Persons with Benchmark Disabilities with the following functional requirement.

**S-Sitting, ST-Standing, W-Walking, BN-Bending, MF-Manipulation with Fingers, SE-Seeing, H-Hearing, C-Communication**

**Note 2:** Apart from qualifications indicated above, any other recognized qualification, which is equivalent to the prescribed qualification, shall be treated on par with that qualification subject to production of required document.

#### **GENERAL INFORMATION AND CONDITIONS**

#### **4. Benefits under Council Service:**

- a) These posts carry usual allowances i.e. Dearness Allowance (DA), House Rent Allowance (HRA) and Transport Allowance (TA) etc. as admissible to the Central Government employees and as made applicable to CSIR employees posted at the place of posting.
- b) Council employees are also entitled to accommodation according to the CSIR Residence Allotment Rules, subject to availability. If Council or Government accommodation is utilized, HRA will not be provided.
- c) In addition to the emoluments indicated against each category of posts, benefits such as reimbursement of Medical Expenses, Leave Travel Concession and Children's Education Allowances etc. are also available as per Govt. of India/CSIR Rules as applicable to the Council Servants.
- d) Scientists in CSIR are also permitted to undertake Consultancy and sponsored R&D project activity. These activities give them scope to earn consultancy fee and honorarium as per CSIR guidelines governing these activities. Opportunities also arise for assignment to foreign countries for pursuing research / training / specific assignments etc.
- e) The selected candidates will be governed by the "National Pension System" or Extant Pension System based on defined contributions as adopted by CSIR for its employees.