

W/2022-VCOF-12089

SERB-Special Call for Proposals-Application Assistant-Last date 01.03.2022

1 message

Tue, Feb 15, 2022 at 9:15 PM

Ranen Das <info@ixoramail.com>
To: info@ixoragrp.com

Dear Sir,

SERB is taking proposal for Special Call for Proposals.

Focal Theme of the calls

Wearable Electronics for Biomedical Applications:

Mobile health technologies offer great potential for reducing healthcare expenses and improving patient treatment. Wearable technological solutions are providing a transformation in the mobile health era in terms of improvising healthcare and providing real-time analysis on improved health management and tracing.

The focus of proposals under this category is expected to develop portable, wearable & implantable electronic devices those are essential for medical purposes such as diagnosis, examination, treatment, care, assistance, and research.

Interdisciplinary:

Electronics, Healthcare, Software, Algorithms, and Information Technology.

Reagentless Organic Synthesis:

It is desired to achieve maximum atom economy through 'clean' chemical reactions with minimal waste generation to avoid adverse environmental impact. One of the best approaches for reducing unwanted and wasteful materials emerging from a reaction or chemical technology process would be where the reactions could be achieved by the application of heat, light, sound or using electrolysis, leading to development of sustainable technologies. This call will look for disruptive developments in

reagent less enabling strategies for synthetic applications both at lab and kilo scale reactors. These ideas will have to be inextricably intertwined with potential applications in frontier areas.

Interdisciplinary:

Chemical Science and Chemical Technology/ Pharmaceuticals

Selective Fluorination Strategies:

Many commercially successful chemicals ascribe their biological activity and metabolic stability to the presence of strategically placed fluorine atoms in their structures. Despite the advances, the preparation of many fluorinated pharmaceutical building blocks and active agrochemical intermediates remains a significant challenge. This special call will support development of benign fluorination strategies for diverse organic substrates and amides, including late-stage fluorination.

Biology of Plants under extreme environments:

India is one of the biodiversity hotspots which covers diversity in all the levels of producers (flora). The diversity of producer species, on which all life depends, is immense, and it ranges from cyanobacteria to forest trees. Plant life

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covers much of Earth's land surface, providing structure to ecosystems (e.g., interacting systems of organisms and their physical environment), habitat for consumers, and regulating the exchange of energy and chemicals with the atmosphere.

The present scenario of climate change insists us to think seriously on climate change resilient research specially in the area of extreme biology. The increasing threats of climatological extremes including high/ low temperature, light, abiotic and biotic factors. It has also been reported that there is a differential effect of climate change both in terms of geographical location and productivity yield of crops. The above-mentioned factors have wide range of effects on plants in terms of physiology, biochemistry and gene regulation pathway.

Interdisciplinary: Plant Sciences, Climate

Eligibility

Scientist in regular service from educational and research institutes/ laboratories, universities can submit a proposal.

Investigators of ongoing SERB projects are also welcomed to apply. However, the PI(s) who are having an ongoing SUPRA or IRPHA project are not eligible to apply under these special calls.

Other eligibility conditions as applicable to Core Research Grant (CRG projects) are to be followed.

We can assist in the application process.

Request you for telecon.

Warm Regards,

Ranen

+91-93725 06967

Ranen Das

Ixora Group

G-133, Haware Fantasia Business Park, Plot-47, Sector-30A, Vashi-400703, Maharashtra, India

M- +91-8097578752

Skype- ranen.das1

www.ixoragr.com



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