

# Prime Minister's Research Fellowship



सत्यमेव जयते

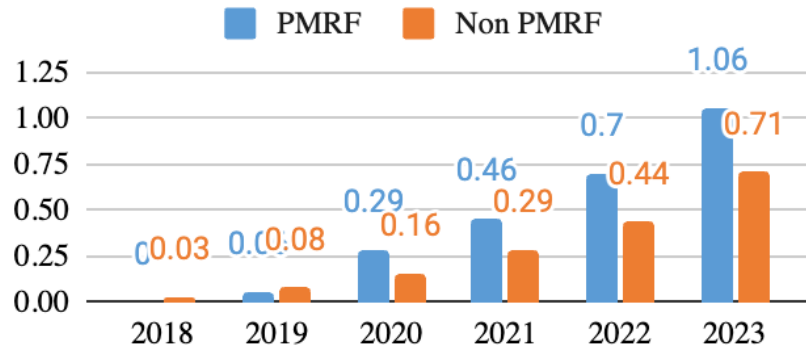
**Ministry of Education**

Government of India

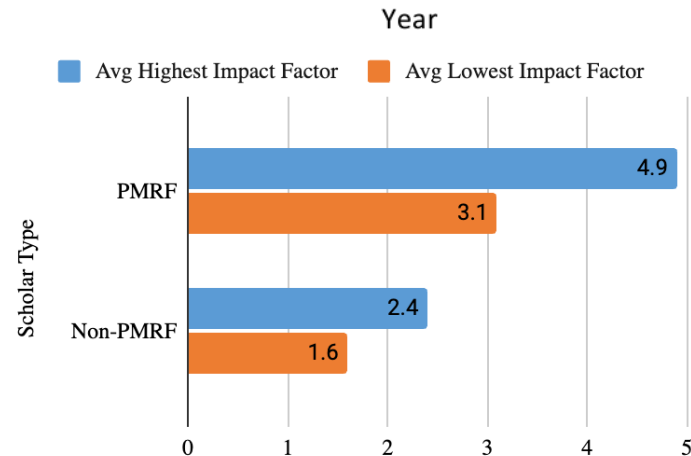
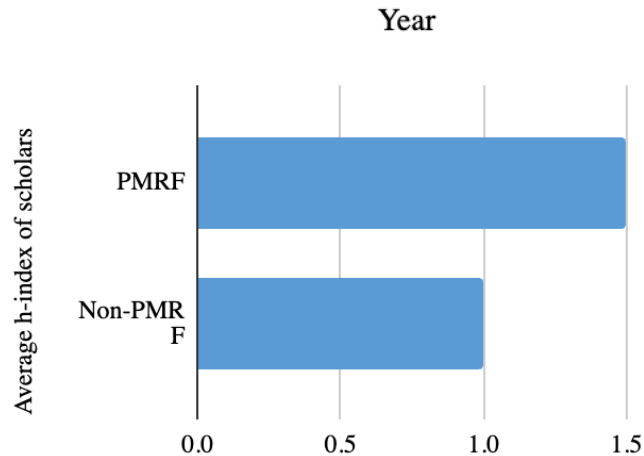
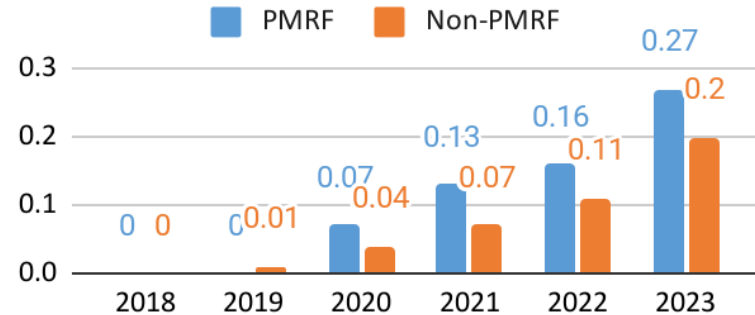
**Supporting high quality research through PhD fellowship and research grant**

# PMRF 1.0 Performance (KPMG Report)

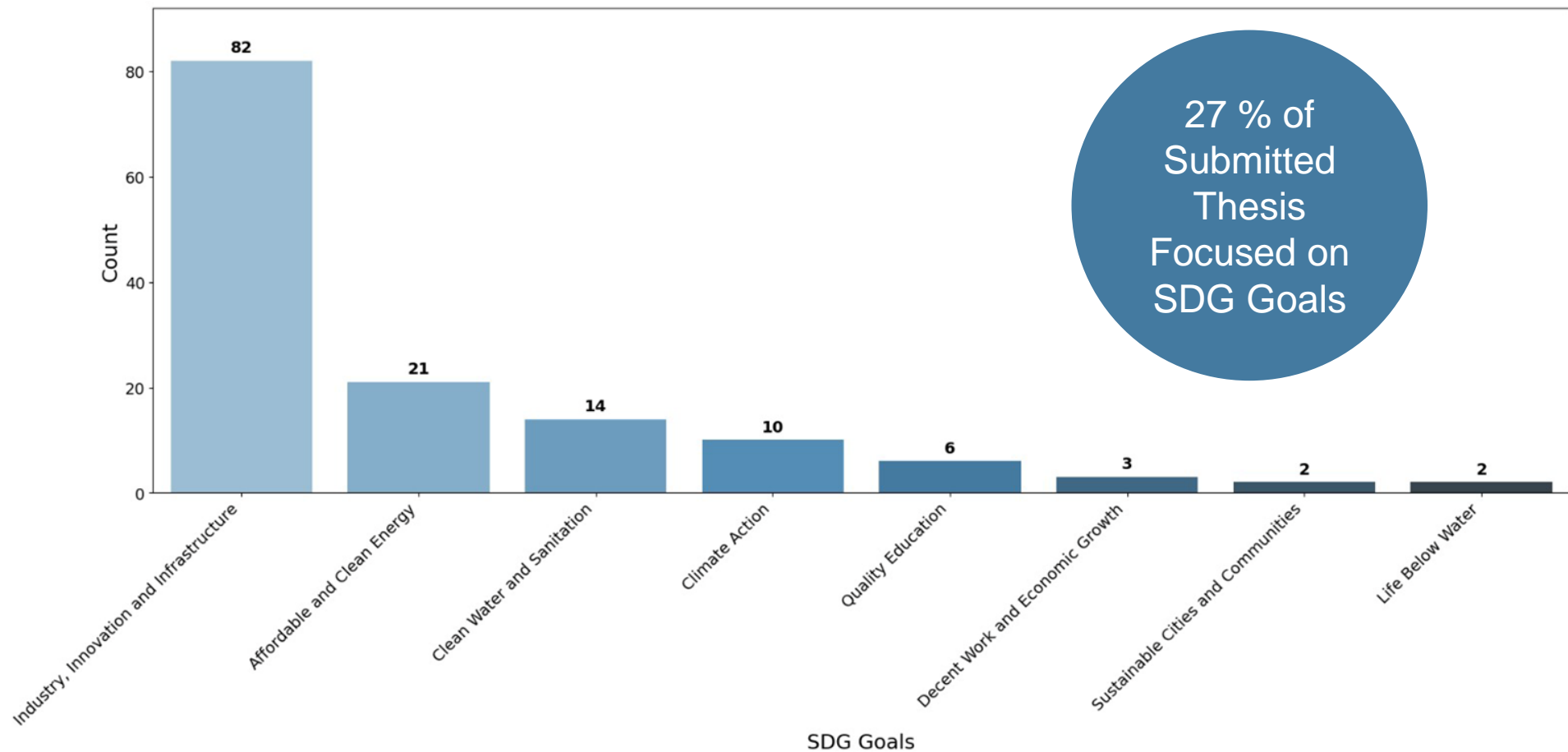
Peer reviewed research publications per scholar



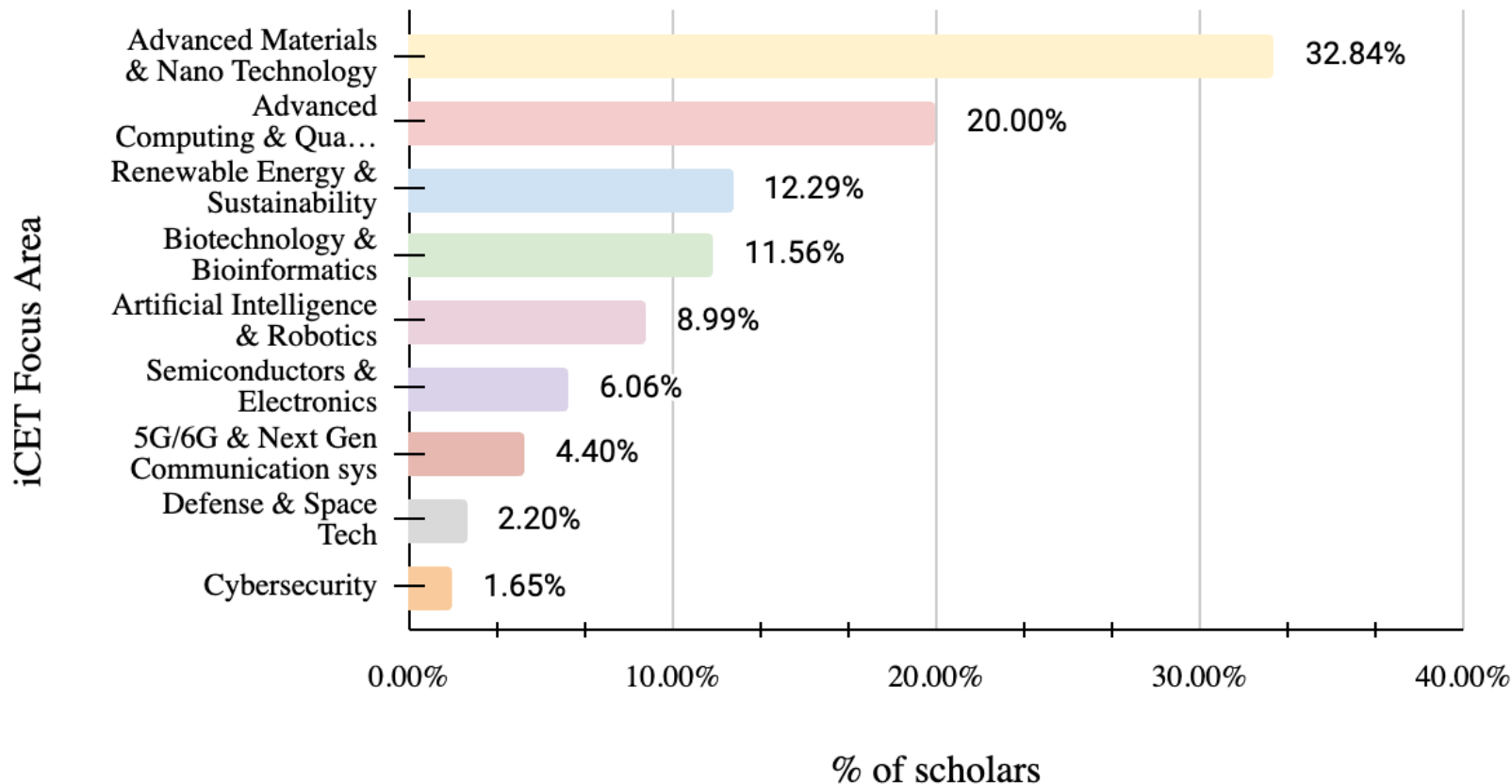
Publications from International Collaborations per



## PMRF Scholars are focusing their research on SDGs



## Critical and Emerging Technological areas



# Powering India's leadership in Critical and Emerging Technologies

iCET Focus Area	Number of Candidates	Aligned Outcomes- Publications and Patents	Key Technology / Objective Achieved	Potential research with TRL >3	Research on High-Risk, High-Impact pushing frontiers
5G/6G & Next Gen Communication sys	28	224	Signal processing, Reconfigurable intelligent surfaces, Integrated sensing and communications, Antenna design	13	8
Defense & Space Tech	14	138	Electromagnetic launchers, Nanoscale interferometry, Spacecraft vibration isolation, High-performance inductive power transfer	4	3
Advanced Materials & Nano Technology	92	736	Nanostructures for sensing, Metal-organic frameworks, Multifunctional composites, 3D printing for biomedical implants, Perovskite solar cells	65	2

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Artificial Intelligence & Robotics	55	552	Knowledge distillation, Biomolecular detection, Regularizations, Causal Inference, Distributed Optimization, Fair algorithms	17	7
Advanced Computing & Quantum computing	52	435	Quantum circuit, Quantum hardware Scalable quantum systems, Cryptography, Neuromorphic Systems	13	4
Semiconductors & Electronics	18	162	Atomistic simulations, 2D material-based devices, ReRAM technology, Semiconductor device modelling	14	2

# Powering India's leadership in Critical and Emerging Technologies

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Cybersecurity	13	117	Lightweight cryptosystems, Blockchain scaling for IoT, Security of cyber-physical systems, Privacy in distributed computing	3	1
Biotechnology & Bioinformatics	61	565	Cancer biomarkers detection, Bioinformatics for therapeutics, Enzyme-based therapeutics, Lab-on-chip devices, Bioremediation	28	5
Renewable Energy & Sustainability	60	561	Renewable energy storage systems, Hydrogen generation, Waste-to-energy technologies, Sustainable nanocarbons, Biofuel optimization	45	4

## Notable Startups by PMRF Scholars: Driving Impact and Innovation (1/3)

Startup	Details
<b>Techsha Futuristic Innovations Pvt Ltd</b>	<p>Founded by <b>PMRF scholar Rajaram Pandian Natesan</b> and <b>Pooja Vardhini Natesan</b>, <b>Techsha Futuristic Innovations</b> is committed to <b>revolutionizing tomorrow's tech landscape today</b>. Specializing in <b>Extended Reality technologies</b>—like <b>augmented, virtual, and mixed reality</b>—Techsha delivers <b>immersive digital solutions</b> that blend the real and virtual worlds for industries and consumers alike</p> <p>By combining <b>cutting-edge research with user-friendly products</b>, Techsha is paving the way for <b>smarter industries, enhanced experiences, and a more sustainable technological future</b>—a true showcase of the <b>impact of PMRF scholars</b>.</p>
<b>CAAPI.AI Pvt Ltd</b>	<p>Founded by Sivaprasad, CAAPI.AI Pvt Ltd is pushing the boundaries of <b>artificial intelligence</b> to make businesses smarter and decision-making faster. With a focus on <b>advanced data analytics, intelligent automation, and AI-powered solutions</b>, CAAPI.AI helps organizations turn complex data into clear, actionable insights.</p>

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## Notable Startups by PMRF Scholars: Driving Impact and Innovation (2/3)

Startup	Details
<b>Clinical AI Assistance: Dr. Aayush</b>	Dr. Abhisek Tiwari (IIT Patna) developed a <b>human-inspired AI assistant</b> “Aayush – Doctor’s Helping Hand”, for clinical decision support to help doctors with diagnosis. Through partnerships with healthcare organizations, Dr. Aayush has served <b>multiple hospitals and 6,500+ end users</b> .
<b>Sahas Labs</b>	Founded by a <b>brilliant PMRF scholar, Arjun B S</b> , Sahas Labs is <b>bringing advanced technology to everyday life</b> . From <b>smart machines</b> and <b>high-precision sensors</b> to <b>innovative healthcare</b> and <b>agriculture solutions</b> , Sahas Labs shows how <b>top-level research</b> can create a <b>real difference in society</b> .
<b>Trivergence Techno Innovations</b>	Founded by Roja Vadlamudi, <b>Trivergence Techno Innovations</b> is dedicated to creating <b>cutting-edge technological solutions</b> that make industries smarter and lives better. The company focuses on <b>advanced automation, AI-driven systems</b> , and

## Notable Startups by PMRF Scholars: Driving Impact and Innovation (3/3)

Startup	Details
Avatt Technologies	Nishant Beriwal is the co-founder of AVATT Technologies, which is <b>commercializing indigenous vanadium redox flow batteries</b> —crucial for long-duration <b>renewable energy storage and grid stability in India</b> .
Urjeevi Labs	<a href="#">Urjeevi Labs</a> is a startup founded by Kavita Kiran Prasad, incubated at IIT Bombay, to commercialize AI-powered smart <b>charging technology for e-mobility</b> . Urjeevi's solutions aim to make EV charging faster and accessible, <b>supporting greener transportation</b> .

# PMRF 2.0

- Announced in the latest budget
- Targeting 10000 scholars in 5 years
- More number of Institutions, increased fellowship and increased research grants
- Aligned with National Missions
- Matching Research Issues of National priority with faculty and research scholars.

**Thank You**