YOUTH OF INDIA
R&D
C E N T E R

RESEARCH
FOR
DEVELOPMENT

राष्ट्रस्य दीपः अनुसंधानम्

A Youth of India Foundation Initiative

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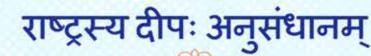+91 78660 03362
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SCAN TO DONATE

Youth2047 Youth of India Foundation

Founder's Message

Sailesh Singhal

Dear Researchers,

It is with great pleasure that I present to you the **Youth of India Research & Development Centre,** a Youth of India Foundation initiative undertaken in our relentless pursuit of change.

We come from a country with a rich legacy of innovation and inventions that have shaped the world, and from Aryabhatta's Zero to AADHAR - the world's largest biometric ID system, we've become a force to reckon with in the global space for Research & Development. As our Indian Leadership envisions, it is time to redefine R&D—not just as Research and Development but as **Research FOR Development.**

In this Amrit Kaal, the call for "Anusandhaan" resonates deeply, guiding us toward an R&D ecosystem that transforms innovative ideas into impactful solutions. At YoI R&D Centre, we align ourselves with this National mission, supported by transformative policies like the 'New Education Policy' and initiatives like 'One Nation, One Subscription', designed to democratize knowledge and accelerate innovation.

Here, Research is not confined to academic exploration; it is a catalyst for Development, creating solutions that Empower communities and drive progress. I firmly believe that we—the Youth—are the architects of a brighter future, and by embedding Development into the very fabric of our research culture, we ensure that every innovation directly contributes to building a stronger, more self-reliant India.

I invite you to join this movement—to bring your ideas, collaborate with fellow change-makers, and redefine what research can achieve. Together, let us leave a legacy of positive change for generations to come.

Director's Message

Rohan Diyali
YoI Research & Development Center

Dear Researchers,

As the Director of the Youth of India R&D Center, I am excited to share our vision with you through this platform that nurtures the thinkers, the problem-solvers, and the visionaries of the future. At the Youth of India Foundation, we recognize the transformative power of Ideas that transcend into Impact.

We are dedicated to pushing the boundaries of knowledge and technology, focusing on areas that can directly improve lives and build sustainable solutions for tomorrow. As we continue to push the frontiers of innovation, particularly through groundbreaking technologies like **LiFi** and **Green Technology,** we remain deeply committed to creating a world where every young individual has the opportunity to make an impact—no matter how big or small.

Our Youth are the foundation of a stronger, more resilient India, and it is our privilege to provide them with the resources and support they need to thrive. The road ahead is one of limitless potential, and I am thrilled to be part of this incredible movement that will shape the future of India.

Let's continue to innovate, collaborate, and build a brighter, greener tomorrow, together.

About Us:

To know more about us, scan:

Renewable Energy:

Championing "Youth For Green Hydrogen" and "Solar Blazer" to Decarbonize the Future

Rural Livelihood:

Amplifying Rural Voices with initiatives like "UnPlastic India" and our range of Eco-Friendly Merchandise, "Tattva" to Empower Local Communities

Skilling & Training:

Equipping young minds through Single-Parent Girl Child Scholarship Programs, Green Skilling initiatives, and various Awareness Drives

Community Mobilization:

Fostering active citizenship through campaigns like "The Pocket Money Campaign", "Share One, Plant One", "The Gandhi Talks" and "Youth Ki Baat"

With mobilization initiatives in Africa, Sri Lanka, Bhutan, and Nepal, our impact borders over **78 countries,** with a dedicated volunteer base of **200,000+ dreamers & do-ers.**

About the Youth of India Foundation

The Youth of India Foundation, born out of the innovative spirit of the **Youth of Siliguri in 2015,** has blossomed into a **United Nations-recognized** force for Youth Empowerment and Social Change. Our journey began with a simple "NO", where every NO was transformed into a **"New Opportunity"** – a philosophy that continues to drive our Mission.

We are committed to **Engaging** Young **Minds in Environmental Stewardship, Empowering** them with **Education,** and **Evolving** India towards a Sustainable 2047 through enhanced **Employability.**

Why We Do Research & Development At the Youth of India Foundation

We are aligned with the Indian Government's emphasis on the significance of R&D in building India's Global Socio-Economic & Scientific Leadership and addressing grassroots problems through applied research. We will advance this further with the YoI R&D Centre. A stepping stone to greater impact across all three of our thematics: Education, Employment, and Environment, we are also addressing the Indian Brain Drain challenge by providing a platform where the Youth can channel their knowledge and curiosity towards on-ground impact and experience to solve pressing issues that the world faces.

Key Focus Areas
At the YoI R&D Centre

Community-Driven
Solutions & Youth Leadership
Development

Next-Gen Technology-
Enabled Transformation

Policy Research
& Sustainable
Development

Key Objectives
At the YoI R&D Centre

At the core of the YoI R&D Centre's objectives lies localizing the **17 United Nations Sustainable Development Goals** towards the **National Goal of 2047.**

Renewable Energy:

Foster **Innovation** & **Youth Entrepreneurship** in Educational Spaces, encouraging research in sustainable and scalable industry solutions, while advancing the National Goal of **Atmanirbhar Bharat.**

Climate Solutions:

Innovate **Green Solutions** through **Green Technology** to accelerate Climate Action towards a more Eco-Friendly Future.

Digital Transformation:

Align with the **Digital India** initiative to create solutions for Digital Education, Smart Cities, and E-Governance, bridging the Digital Divide to ensure equitable access to technology. We pioneer R&D in **Lifi (Light Fidelity)** which has the potential to revolutionize communication by providing faster, more secure, and energy-efficient internet access.

Types of Research

Basic Research:

Involves research done to gain new knowledge about fundamental principles without much focus on practical applications. For example, pure mathematics research, whether exploratory, descriptive, or explanatory, falls under this category.

Applied Research:

Focuses on solving specific practical problems. It is used in various fields like Health and Education to achieve specific targets.

Development Research:

Uses existing knowledge to create or improve products or services. It involves designing and testing prototypes, while Engineering focuses on turning these results into commercial, usable products.

We, at the YoI R&D Centre, work across these three categories of Research and aim to achieve our goals through **Digital Empowerment** - leveraging emerging technologies such as AI, blockchain, and IoT for Social Good.
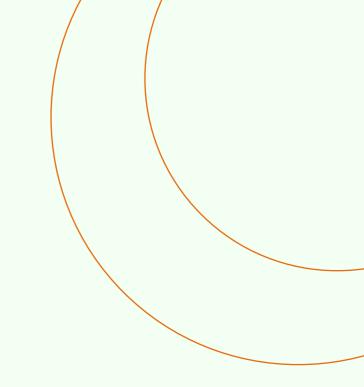
Research With Us

Collaboration Opportunities:

We are open to Project Collaborations that can create change together.

Internship and Fellowship Programs:

We offer Internship and Fellowship

Programs at our Centre for passionate researchers.

Events, Workshops, and Conferences:

We organize interactive Expert Sessions to encourage young minds to indulge their curiosity to create Impact through R&D.