



**Dental Technology  
Innovation Hub**



**INDIAN  
ENDODONTIC  
SOCIETY**

**PREVEST**DenPro®  
THE FUTURE OF DENTISTRY

Dentistry has evolved and advanced considerably over the decades. Most of this progress may be attributed to significant strides in technology and its incorporation and customization to improve the delivery of oral health care. The technological developments in dentistry like 3D printing and imaging, CAD/CAM, robotics, advanced dental materials and dental equipment have enhanced patient experience and improved the efficiency of dental health care. Increasing awareness, the competitive landscape, access to these progressive technological alternatives is going to be the game changer for the delivery of dental care.

Although, dentists have become more receptive to embracing these advancements, these newer treatment options and evolving dental devices and products come at a high financial cost to individuals and the society at large. The rising cost of dental treatment is primarily dependent on the cost of dental equipment, materials, machinery and technical products. The necessity for exporting several of these items is a major contributor to this monetary burden.

India is importing almost 85% of the dental technology used for the purpose of dental treatment. There is urgent need to break dependence on expensive imports and create indigenous technologies, which are affordable, comparable in quality and more fitting for local health-care scenario. This vertical of Indian Endodontic Society has been established with objective and mission of promoting oral health research for indigenous development of dental equipments /materials. It will act as a platform to bring dentists, technical experts and industry on a common platform. Support will be extended to dentists working as academicians and/or clinicians, who are driven to work on developing indigenous/innovative dental technologies.

## **IES- PLATFORM FOR RESEARCH & INNOVATION FOR DENTAL ENTREPRENEURSHIP (PRIDE)**







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# IES – PRIDE INNOVATION CHALLENGE- 2024

To be held during 32nd IESCON 2024, Chennai

Innovation and research with their subsequent application and translation to the development of commercially viable products and services, forms the basic essence of the enhancement of the health care delivery in India. There is urgent need to provide the end users (dental practitioners and patients) with innovative and indigenous alternatives in form of equipment for screening, diagnosis, and treatment, superior dental materials, dental services etc. to make oral care more affordable and accessible as well as better relevant to the Indian health-care context.

Indian Endodontic Society (IES) recognises that individuals and organizations on the ground are best placed to such bring such innovative solutions into practice. We are inviting academicians/post-graduate students/ clinicians to propose new and practical ideas and innovative solutions that have the potential for scaling-up and commercialization on a wider scale.

## I. Support provided by IES



- Winners of this Innovation Challenge will be awarded financial grants by Prevest DenPro Ltd. for translation of the project into marketable technology/product
- Industry experts can provide an insight into the market realities/status and methods for effectively penetrating this market space.

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## II. Support provided by Industry

- Winners of this Innovation Challenge will be awarded financial grants by Prevest DenPro Ltd. for translation of the project into marketable technology/product
- Industry experts can provide an insight into the market realities/status and methods for effectively penetrating this market space.

## III. Support provided by Dental Technology Innovation Hub (DTIH), Maulana Azad Institute of Dental Sciences, New Delhi

Dental Technology Innovation Hub (DTIH) which is a first of its kind, dedicated center for development of dental technologies, is the official partner for this innovation challenge. DTIH, Sponsored by the Department of Science and Technology (DST), and Indian Council of Medical research(ICMR) has been set up at Maulana Azad Institute of Dental Sciences (MAIDS). It is dedicated to Dental Technology Innovations and conversions of indigenous lab scale technology systems/prototype and replications in identified new & emerging areas of Dentistry.

For the winners of this Innovation Challenge, DTIH will provide mentorship through best-in-field subject experts as well as incubate the innovation/ technology. It will provide support by

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- It will help provide a stream-lined pathway from an innovative idea to a marketable product for the innovators via mentoring support.
- Provide in-vitro and clinical testing of the developed technology (access to technologies like Chewing Simulator, Thermocycler, CAD/CAM Laboratory, 3D Laser Scanning System, 3D Printing Laboratory, Universal Testing Machine, Designing Software, Microhardness Testing Machine.
- Provide support for regulatory clearances and to protect intellectual property of the innovators and institutions.
- May facilitate clinical validation depending on the technology.

**With the support of above three stake holders, Financial Grant amounting to Rs 5 lakhs will be given to the winners of IES-PRIDE Innovation Challenge-2024.**

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## Important Points To Be Noted:

### A) Last Date of Submission

– 15th August, 2024 is the Last Date of Submission.

### B) Who Can Apply ?

- Academicians and/or Clinicians/Private Practitioners, who are IES members may apply for this Innovation Challenge.
- Post Graduate students may apply with a faculty member to lead the proposed technology/ product.
- It is recommended to apply as a comprehensive team comprising of dental experts along with Technical Partner.

### C) How to Apply ?

First Phase Screening : Brief write up of the proposal in form of a concept note should be submitted via Email at [info@ies.org.in](mailto:info@ies.org.in) by 15th August 2024. . The format for submission is attached separately. It includes the following headings,

1. Name of Innovator(s), Designation and Affiliation:
2. Title of the Proposed Innovation
3. Background and Need Analysis (50 -100 words):

A review of existing research background related to the proposed innovation and clearly articulating the need or problem statement that the Innovation aims to address. Why the innovation (Product/ material/ technology) is necessary and what specific problems It seeks to address?

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## Important Points To Be Noted:

### 4. Problem Statement which will be addressed through this Innovation and its Prevalence (100 -150 words):

Clearly define the specific problem that the innovation will address. This should include concise description of the main problem and existing lacunae. This should include prevalence of diseases / problems to be solved in Indian population.

### 5. Key Objectives of the proposed technology/project (Max 2-3 points)

### 6. Existing Similar Technologies

This should include information related to any other similar technology with the existing lacunae in that technology. Categorise whether the innovation is indigenous or new innovation.

### 7. Market (Relevant) Presence/ Size

This should include whether innovation is already existing or not. What is the market share of the innovation? Market share refers to the portion or percentage of a market earned by a company or an organization related to the technology being proposed here-in

### 8. Prior Art Search for patent

This should involve conducting a comprehensive search to identify existing patents related to technologies/innovations that are similar to the innovation being proposed.

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## Second phase (On-site Presentation) -

A total of 7-10 applicants will be selected to proceed further to present their ideas physically to an on-site panel during the 32nd IESCON- 2024 at Chennai. The panel will consist of with leaders and subject-experts from dentistry, technical institutes and representatives from premier funding bodies as well as from the health-care industry. One/more of three organizations—Prevest DenPro Limited, DTIH, or IES—will be providing support as mentioned above to the Innovation Challenge winners. Any combination of the aforementioned entities may provide the necessary funding to bring their project proposal to fruition.

Presentation Format for the On-site Presentation will be shared in due course of time.

For queries please mail us at  
[dtih@dentaltechindia.com](mailto:dtih@dentaltechindia.com)

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