



# JSS Academy of Higher Education & Research

**(Deemed to be University) Accredited A+ Grade by NAAC**

## INSTITUTIONAL DISTINCTIVENESS

## RESEARCH INTENSIVE UNIVERSITY



## **Institutional Distinctiveness**

### **Research Intensive University**

JSS AHER has evolved as a research-intensive university that aims to transform individuals and society through education and research. The university's strategic priorities include advancing education, research, innovation, and societal impact. JSS AHER is strategically positioned to excel in the global academic landscape, focusing on basic to advanced health sciences research in the frontier areas of medicine, dentistry, life sciences, and pharmacy. It fosters interdisciplinary and multidisciplinary research to tackle health challenges and key societal issues. Towards this vision in its Strategic Plan Vision 2025, it gave the strategic direction: ***Advancing Research and Innovation initiatives - Uniting our strength in science and healthcare in a comprehensive range of disciplines and translating research to social, economic, scientific, and technological development.*** JSSAHER expanded its research vision with a five-year and ten-year plan to be an 'Internationally recognized Research-Driven University by 2030.' To realize this, it rolled out efforts, and in the last five years, it has transformed itself into a research-driven university, as can be seen from the initiatives and outcomes that have been achieved in this journey.

JSS AHER's continuing efforts in the research ecosystem are Nurturing Research Culture and Creating Innovation Systems (JSS AHER – NRCIS), which are centered on collaboration among faculty, students, research scholars, academia, and industry stakeholders. The nodal center aligns with Atma Nirbhar Bharat's vision for societal impact and serves translational research endeavours. For the said purpose, JSSAHER has invested more than **INR 100 Cr.** in the last five years to strengthen its research infrastructure and also provide state-of-the-art facilities with cutting-edge equipment. Through its 12 Centers of Excellence, JSSAHER catalyzes multidisciplinary research outcomes focusing on four diverse fields: chronic disease biology, public health and nutrition, Drug Discovery and Development healthcare delivery systems, data analytics, and digital healthcare delivery as envisaged in its strategic plan. In pursuing the journey of a Research-Intensive University, JSS AHER partnered with 150 national and global institutions of repute, facilitating advanced research and innovations.

JSSAHER's dedicated University Sophisticated Instrumentation Centre (USIC) is now established and is an advanced infrastructure facility for promoting health science research and training. To establish USIC, JSS AHER secured funds worth **INR 3000** lakhs from prestigious DST-PURSE, DBT BUILDER, DST-FIST, and VGST-FIST, along with self-investment from the university. The drive towards seeking nationally funded research projects resulted in JSS AHER being among the four universities receiving the DST-PURSE flagship program in 2021-22. Additionally, JSS AHER secured substantial grants of **INR 7000** lakhs from national and international agencies such as India Alliance - Team Science Grant, India Alliance - CTRITH, and South Asia Self Harm Initiative (SASHI), along with other major projects. JSS AHER also established the 'Schrodinger Center of Excellence in Molecular Simulations for molecular drug discovery and design worth **INR 350** lakhs. JSS AHER has supported interdisciplinary research by providing 568 seed funding to faculty and students worth **INR 197.44** lakhs, further bolstering its research endeavours.

Attracting distinguished faculty was daunting but could be overcome by having on board 04 Professor of Practice and 44 Adjunct Faculty members who brought real-world expertise to

academia and research, enriching students' life-long learning. In its endeavor to bolster its research ecosystem on a global scale, JSS AHER has attracted top-tier research faculty, including 05 prestigious DBT- Ramalingaswami Re-entry fellows from renowned international institutions. JSS AHER has secured 325 research grants from ICMR, CSIR, DBT, UGC, and VGST, and 460 research fellowships, which include Research Associate fellowships, JRFs, SRFs, DST-WOSA, PM fellowships, Savitribai Jyotirao Phule fellowships, LTMT fellowships, including JSSU fellowships.

JSS AHER hosts a diverse array of 19 Special Interest Groups (SIGs) supporting them with funds to the tune of INR 80+ lakhs, each dedicated to advancing knowledge and addressing key issues in specific disciplines, ranging from Cancer Biology to Orofacial Pain, Quality, and Safe Use of Dental Materials, and Quality and Safe Use of Medicine. These SIGs serve as platforms for interdisciplinary collaboration, innovation, and research excellence, significantly advancing knowledge and improving patient care and public health outcomes.

JSS AHER, in collaboration with the Indian Council for Medical Research, conducts various initiatives. These include a multicentric effort to create the "National Registry for Rare and Other Inherited Disorders," assessing the burden of rare genetic disorders and incorporating their treatment into ongoing public health initiatives for universal access to healthcare. ICMR's Taskforce on the Establishment of Reference Intervals in the Indian Population (TERIIP) is for establishing reference intervals in the Indian population, focusing on 21 hematological and 41 biochemical parameters. Also, ICMR recognized JSS AHER as one of the ICMR - -collaborating centers of excellence (ICMR-CCoE) for five years for capacity building for ICMR- Scientists.

Recognizing the importance of international collaboration in research, JSS AHER has instituted the JSS AHER Overseas Research Fellowship program, providing financial assistance of \$12000 for one year to meritorious research scholars for conducting laboratory work at the top universities in the USA, Denmark, UK, and Spain. JSS AHER, in association with Karolinska Institutet, initiated research on "Household air pollution: Insight into the mechanisms of adverse respiratory effects in India." The Global Health Equity Scholars (GHES) fellowship is an NIH Fogarty International Center, USA program, driven by "Cervicovaginal microbiota and its association with inflammatory cytokines, lipid metabolites among." health sciences.

The journey of JSSAHER becoming recognized internationally continues, but the efforts and outcomes reflect a journey that has begun well. The data relating to the publications and patents speak volumes about the progress it has made since the last cycle of accreditation. During the period of the last five years, it has published **4707** publications out of which it has **3620** publications in Scopus and **2908** in Web of Science with an H-Index of **76** and **71** respectively. It has in the last five years filed **66** patents, published **97** patents, and awarded **31** patents. The year-on-year growth has been around **20%**. Many such measurable outcomes can be exemplified to support the journey of JSSAHER as research driven university and the journey continues.

# Research Intensive University

Encourages Experimentation

Embraces Change

Empowers individuals

## Infrastructure

>100 Crores Invested  
12 Centers' of Excellence



## Research Grants and Fellowships

338 Research Grants  
100.26 Crores Sanctioned Amount  
248 Seed Money Grants  
1006.14 Lakhs Sanctioned Amount  
460 Research Fellowships



## Research Outcomes

4707 Publications  
76 Scopus *h-index*  
71 WoS *h-index*  
112 Overall *h-index*  
100+ Patents



## Advanced Facility

>30 Crore University Sophisticated Instrumentation Facility (USIC)  
> 24 Crore Skill and Simulation Center  
5 Crore Schrodinger Center of Excellence in Molecular Simulations  
2 Crore for Bio-specimen Respository  
5 Crore Central Animal House Facility



## Innovations Ecosystem

13 Startups Incubations  
18 Entrepreneurs  
32 Product Developed  
13 Entrepreneurship Development Program

