



inspire

# Innovation in Science Pursuit for Inspired Research (INSPIRE)

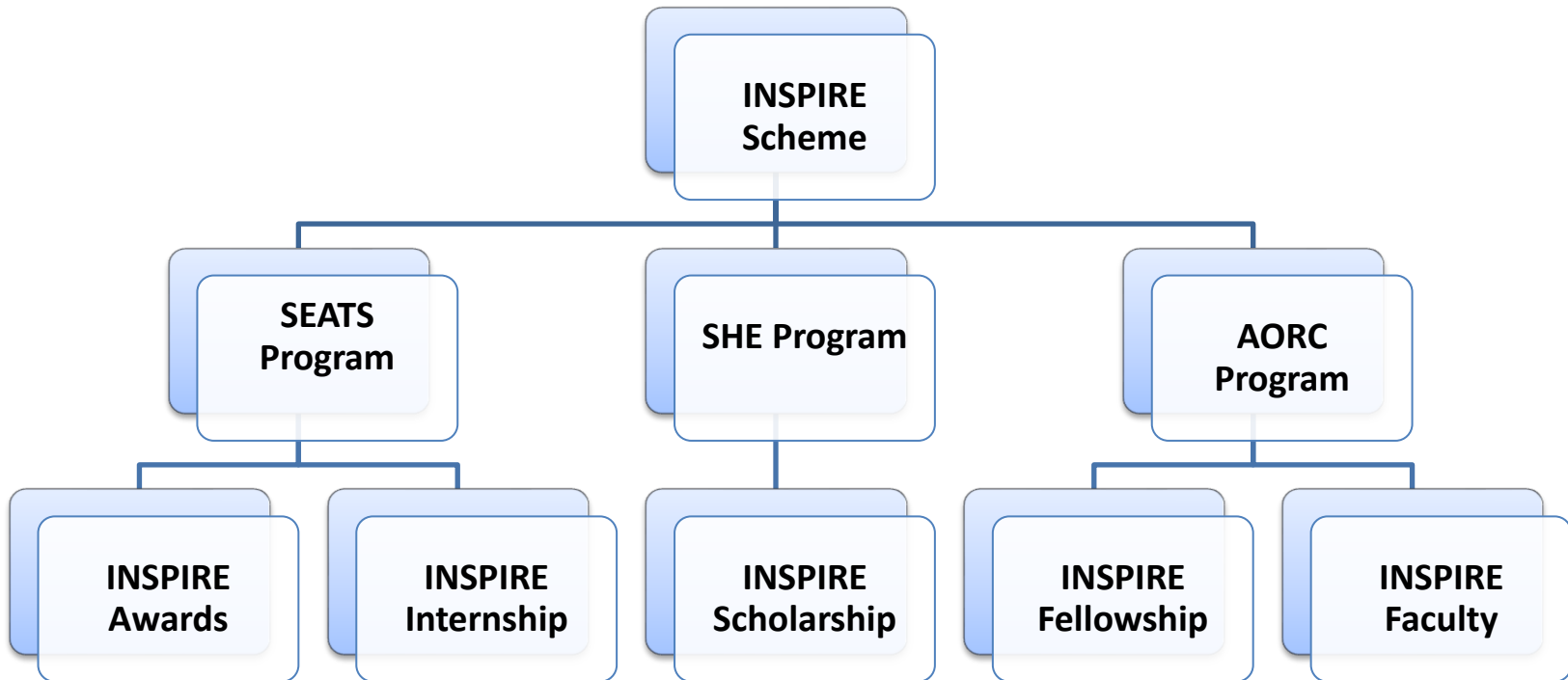


- Developed by DST during the Eleventh plan,
- Hon'ble Prime Minister announced in Indian Science Congress, January 2008,
- Approved by the Cabinet at a total outlay of Rs 1959.9 cr in 11<sup>th</sup> Plan period,
- Launched on 13<sup>th</sup> December 2008 by the Hon'ble Prime Minister,
- The INSPIRE Scheme is continued in 12<sup>th</sup> Plan at an outlay of Rs 2200 cr.

## Objectives & Salient Features

- Expected to attract talent, foster creativity, motivate youth and promote research as a career,
- An integrated scheme covering the age group of 10 - 32 years of youth population,
- No additional or separate examination system for identification of talent in any component of the scheme,
- Direct release of Awards, Scholarships etc., to students,
- Involvement of Academia, Scientific Community/Industry, State functionaries and other Stakeholders.

# Innovation in Science Pursuit for Inspired Research (INSPIRE)



# INSPIRE Philosophy



**Scheme for Early Attraction of Talent for Science (SEATS)**

To Prepare talented youth as science aware Citizen with ambitions to compete globally through professional accomplishments

**Scholarship for Higher Education (SHE)**

**Attraction of talent to study science and careers with research in a competitive environment for talents**

**Assured Opportunity in Research Career (AORC) Fellowships and Faculty Awards**

The Program envisages that about 20% the current annual enrollment in total public funded research positions would be serviced by the INSPIRE Scholars in future at 1000 positions per year; Desires higher enrollment of industry in R&D with creation of higher value employment for scientists leading to larger R&D base

# INSPIRE Program: At a Glance



## INSPIRE Awards

200,000 per Year, Rs. 5,000 per Award  
Every middle & high school covered  
Minimum 2 Awards per school in 5 years  
Science project exhibit  
5-10% Entries to be selected by jury for  
State level and National level prizes

←  
**Age 10-15**

## INSPIRE Internships

50,000 per year  
Top 1% in class X criterion

←  
**Age 16-18**

7500 based on Top 1% students in XII Board Exams

10,000 Scholarships  
Rs 80,000/yr  
for 5 years

←  
2500 based on  
performance in national  
level examinations

←  
**Age 17-22, BSc/ MSc levels**

←  
Top ranker in any science,  
engineering, medical, agriculture  
and veterinary related faculty in  
Indian universities

1,000 Fellowships

←  
**Age 22-27, PhD level**

200-300 Faculty  
Positions per year

←  
National level selection  
based on merit and INSPIRE  
attachment without break

←  
**Age 27-32**

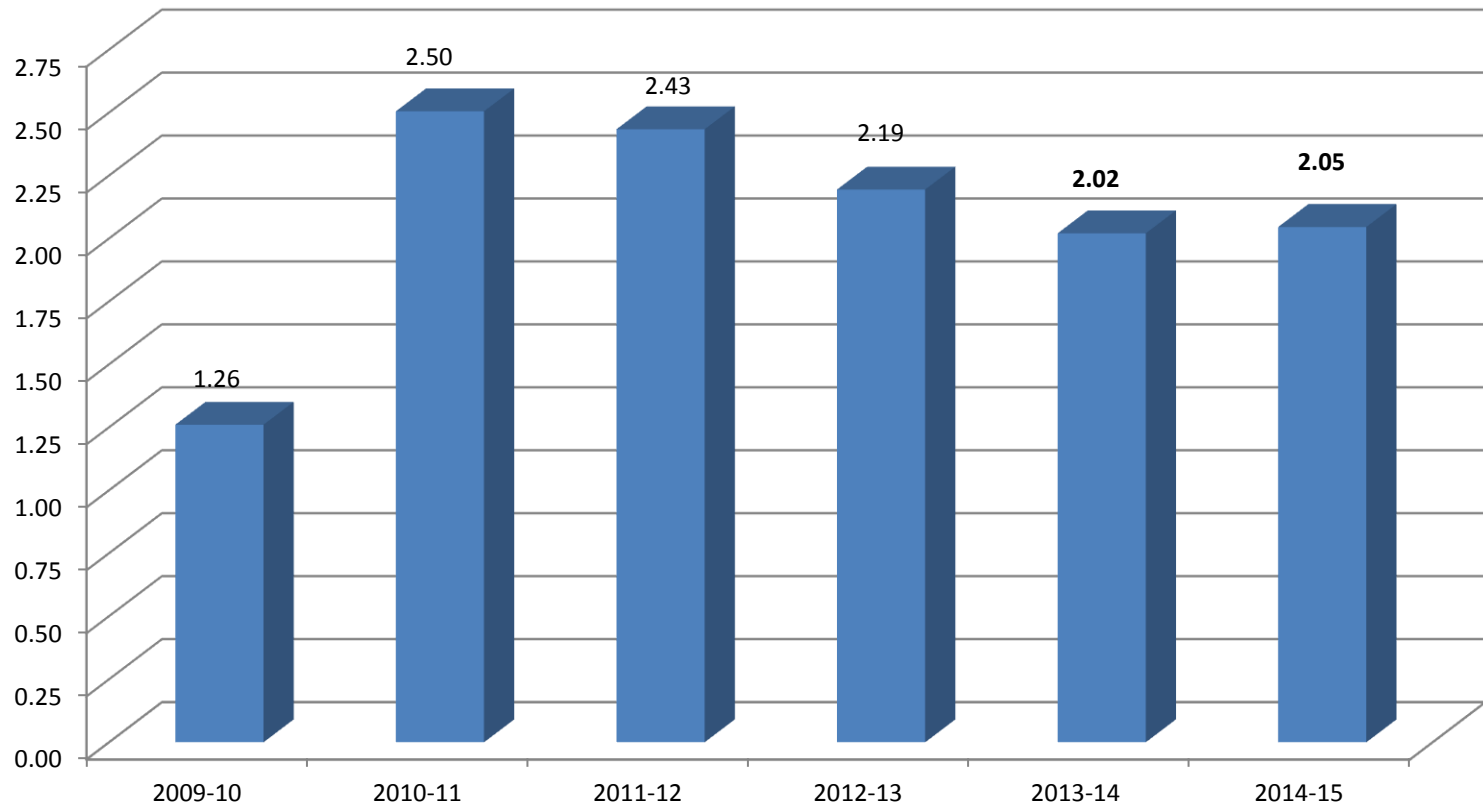
**Assured Career Opportunity in Research**

# INSPIRE Awards: Year-wise Awards

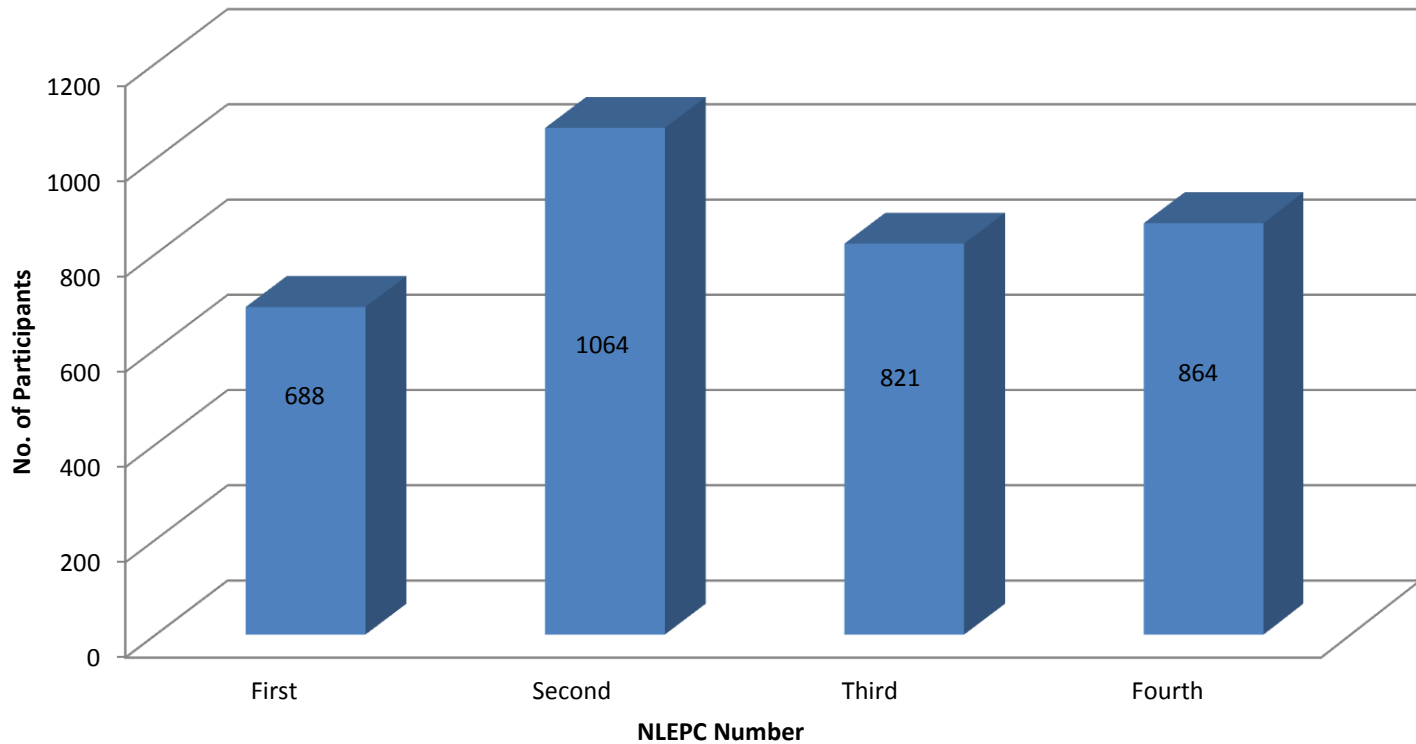
- ❖ Total (2009-2015) : 12.46 Lakh, 2014-15 : 2.05 Lakh.
- ❖ Covered in all States & UTs.

- SC – 15%, ST – 11% in natural way
- Gender Ratio: 52 : 48

Typical Class-wise Distribution: 6<sup>th</sup> – 32%, 7<sup>th</sup> – 27.5%, 8<sup>th</sup> – 20%, 9<sup>th</sup> – 12% & 10<sup>th</sup> – 8.5%



# INSPIRE Awards : Year-wise Students participated in NLEPCs



**Possible IPs :** 2011 – 10 Patents filed, 2012 – 6 Patents being filed, 2013 – 12 Provisional Patents filed, 2014 - ~ 197 models are screened for Patentability.



# INSPIRE Internship : Science Camps

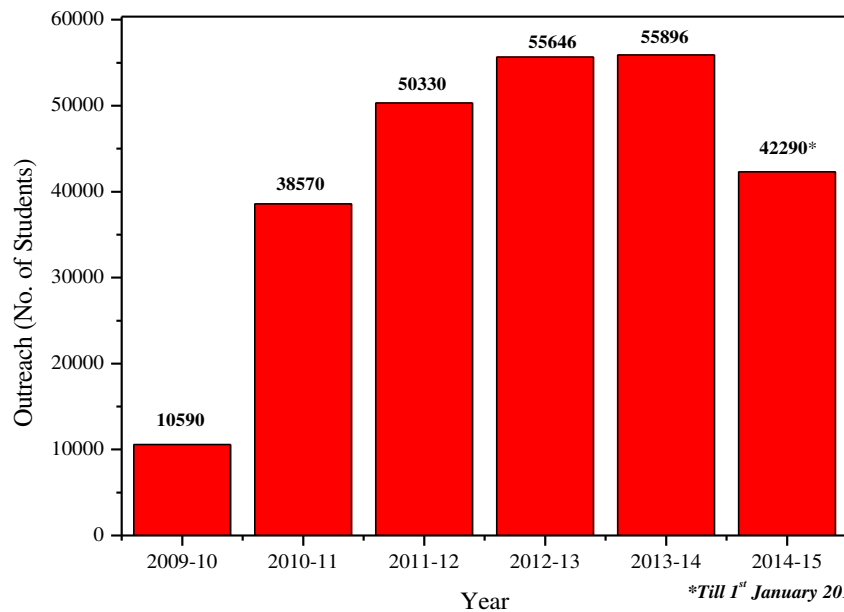
## INSPIRE Internships

50,000 per year

Top 1% in class X criterion,  
Studying Science at XI Std.

Year	No. of Camps Organized	No. of Organizers	No. of Students participated
2009-10	50	34	10590
2010-11	173	95	38570
2011-12	220	126	50330
2012-13	261	192	55646
2013-14	240	210	55896
2014-15	235	202	42290
<b>Total</b>	<b>1179</b>	<b>859</b>	<b>253322</b>

INSPIRE Internship: Growth Profile



## Highlights:

- More than 12000 Indian Mentors
- 60 Nobel Laureates participated so far
- In 2014-15, nearly 2500 Indian Mentors and 10 Nobel Laureates.
- Science Camps organized in all States and UTs.
- In 2015-16 by now around 75 Science Camps sanctioned to organize.



# A Few Glimpse of Science Camps



Prof. Dr. Ivar Giaever



Prof. Dr. Hartmut Michel



Prof. Dr. Richard R. Ernst

## Noble Laureate interaction with students at INSPIRE Science Camp



Organizers workshop for INSPIRE Science Camp



Pondicherry University, Portblair



Bhaskaracharya College, Delhi



Chandigarh University



Bharathiar University, Trichy



Smt. Kasturba Walchand College, Sangli

# Scholarship for Higher Education (SHE)



10,000 Scholarships  
Rs 80,000/yr, for 5 years

Top 1% at +2 Level in Board Exam., Pursuing Science at UG -->PG in Colleges/ Univs.

Within 10,000 Rank in JEE (Main), JEE (Advance), NEET Exam., KVPY, NTSE Scholar, JBNSTS, Int. Olympiad Medalist and Pursuing at UG→PG in Science at Colleges/ Instt./ Univs.

Students Pursuing Science Courses at IITs, IISERs, NISER, DAE-CBS & Viswa-Bharathi

**Payment:** Scholarship paid directly to Students directly either through Smart Card or their SBI Bank A/c.

**Mentorship:** 6 Wks Research Internship in India or abroad from 1<sup>st</sup> Year onward at any Academic Instt. / Res. Lab/ University attaching with Research Supervisor. Payment on the basis of submission of Research Report.

## INSPIRE Scholarship

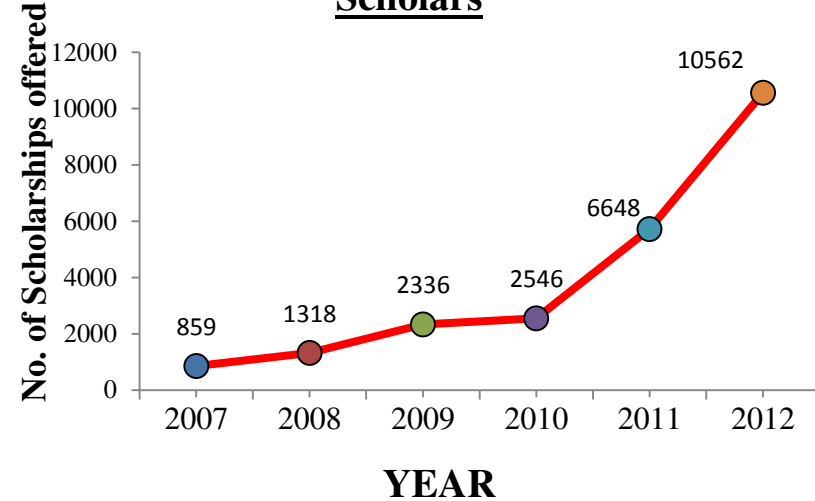
**Value:** Annually Rs 80,000/- (Rs 60000/- in Cash as Scholarship and Rs 20000/- as Mentorship Cost)

**Continuity:** Academic Performance on Annual Basis, adjudged through Mark-sheets and Performance Report endorsed by Principal/ Registrar.

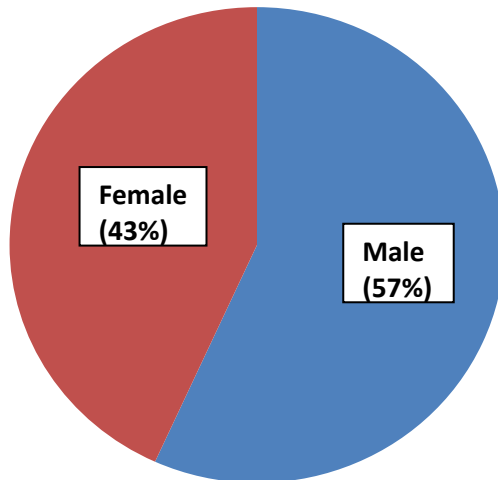
# SHE: A New Growth Trend

Year of passing Class XII Board	Number of Applications Received under Direct Mode	Number of INSPIRE Scholarship Offered		
		Through Boards	Through Competitive Examination	Total
2007	1177	430	429	859
2008	1504	807	511	1318
2009	1922	1483	853	2336
2010	2149	1661	885	2546
2011	8237	5716	932	6648
2012	19275	9454	1108	10562
2013	35023	12585	815	13400
2014	35999	27435 #	820	

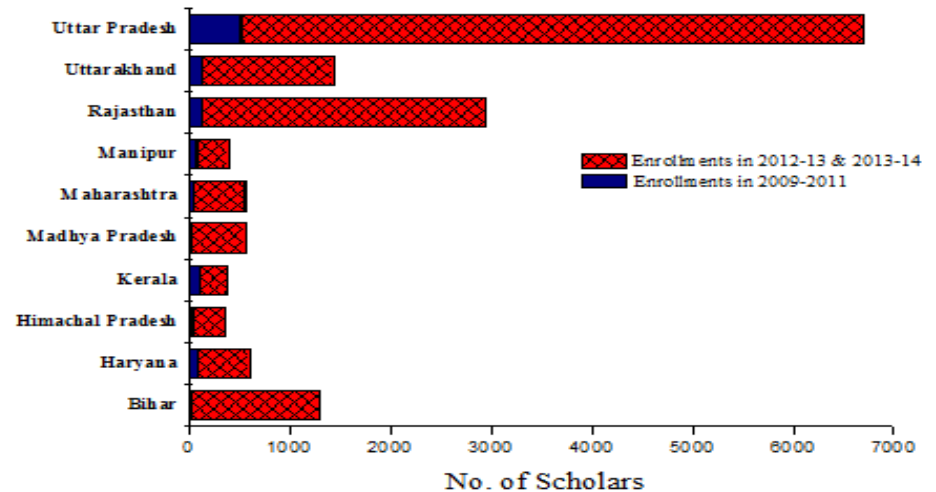
**Year-wise Distribution of INSPIRE Scholars**



# Offer Yet to be finalized among Eligible Students



**Gender-wise Distribution**



**High Enrolment in Few States**

# INSPIRE Fellowship

1,000 Fellowships



## **Objective:**

To provide fellowships for pursuing doctoral research at any recognized University, Laboratories and Academic Institutions

## **Eligibility:**

- 1<sup>st</sup> Rank Holder in University Level examinations at
  - ◆ Post-graduate courses in Sciences, Applied Sciences, Engineering, Medicine, Agriculture, Pharmacy, Veterinary etc,
  - ◆ Under-graduate courses in Engineering or other professional courses.
- 65% Marks or Equivalent CGPA in aggregate at MSc/ Integrated MS level examination for INSPIRE Scholars

## **Amount:**

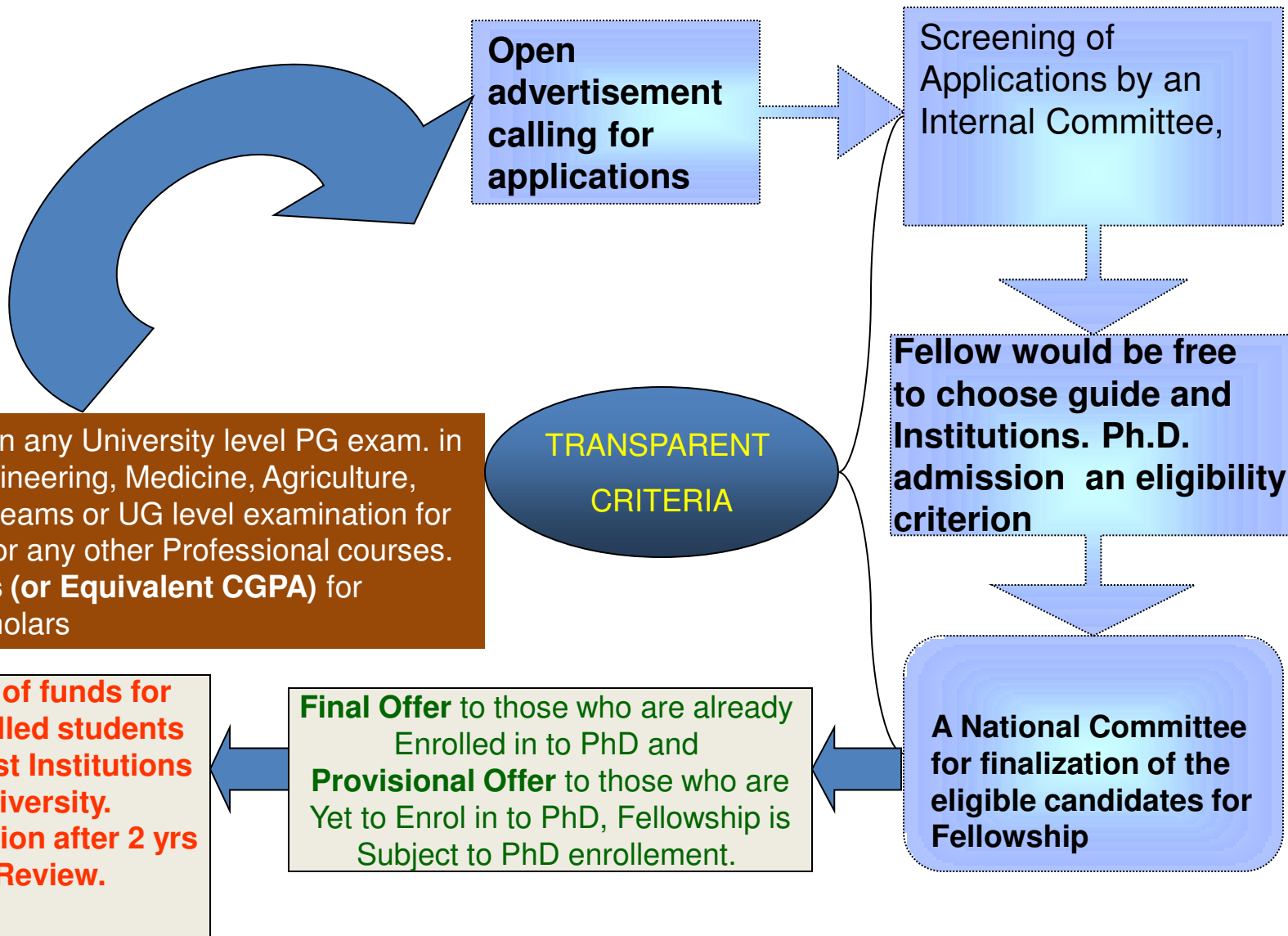
As per GOI norms equivalent to JRF/ JRF (Professional)

- JRF: Rs. 25,000/- p.m. + HRA + Contingency (Rs. 20,000/- p.a.)
- SRF : Rs. 28,000/- p.m. + HRA + Contingency (Rs. 20,000/- p.a.)

**Duration:** 5 Years or completion of PhD. JRF to SRF conversion after 1 year (minimum).

**Provision for total no. of Fellowship:** 1000 every year

# INSPIRE FELLOWSHIPS – Support Mechanism



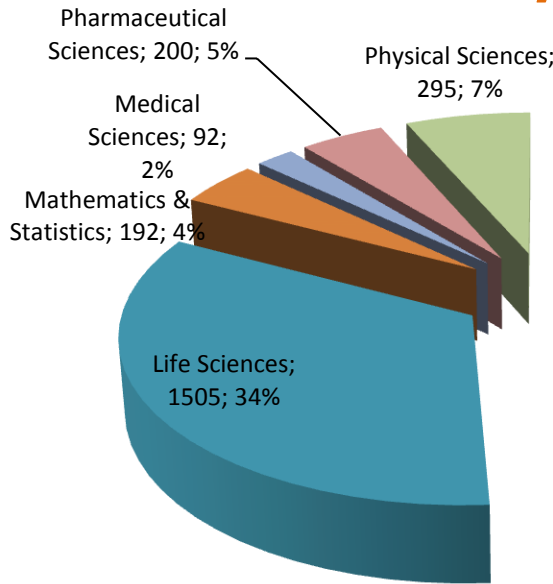




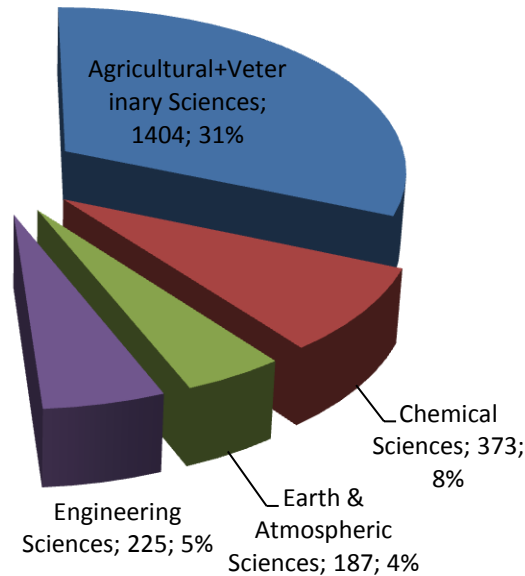
# INSPIRE Fellowship: Growth Trend

Year	No of Applications Received	No of Fellowship Offered			Migration of INSPIRE Scholars
		JRF	JRF-P	Total	
2010	1519	416	223	659	--
2011	1123	536	244	780	--
2012	1766	513	358	871	--
2013	1830	663	527	1190	~ 135
2014	1726	564	436	1000	~ 282
<b>Total</b>	<b>7964</b>	<b>2692</b>	<b>1788</b>	<b>4480</b>	<b>~ 417</b>
<b>2015</b>	<b>1783</b>	<b>UNDER EVALUATION, EXPECTED TO BE OVER BY SEPT, 2015</b>			

## Progressive Growth of INSPIRE Fellowship



**Subject-wise Distribution**



**Institution wise Distribution**

# INSPIRE Faculty Award

200-300 Faculty  
Positions per year



## **Objectives:**

- *To provide attractive opportunity to young achievers for developing independent scientific profiles and launch them in fulfilling long term careers,*
- *Expected to augment high quality scientific manpower for scientific and educational institutions, specially for State & Central Universities,*

## **Features:**

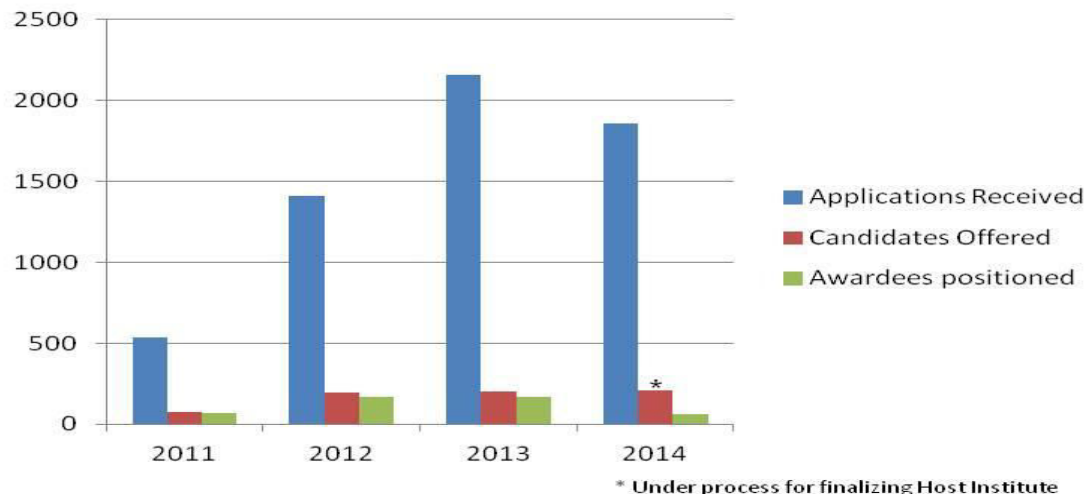
- *Indian citizens and people of Indian Origin including NRI/ PIO status with PhD or submitted PhD theses,*
- *Upper age limit : 32 years (35 years for SC/ST ),*
- *Provision for 1000 Faculty Positions,*
- *Each Faculty Position will receive an amount equivalent to an Assistant Professor of an IIT along with Rs 35 lakh as Research Grant (@Rs 7 lakh per Year) for 5 years,*
- *Selected candidate is allowed to select any Host Institution of their choice to implement this offer,*
- *Selected candidates is allowed to go abroad for 18 Months in one or multiple slots for training or further development,*
- *Selected candidates is allowed for receiving & implementing any sponsored project (s).*

# INSPIRE Faculty Award – A few Statistics



Since July 2011, 8 Sessions are Completed. 9<sup>th</sup> Session is being announced now.

Status of INSPIRE Faculty Award



## *Progressive Growth Trend of Faculty Awardees*

Session	Number of				
	Applications Received	Faculty Award Offered	Positioned at Host Institute	Offer Declined	Received / having Permanent Position
July 2011 to January 2014 (up to 6 Rounds)	5091	573	501	72	205
July 2014 (7 <sup>th</sup> )	889	106	83	04	
<b>TOTAL</b>	<b>5980</b>	<b>679</b>	<b>584</b>	<b>76</b>	<b>205 (~ 35 %)</b>
January 2015 (8 <sup>th</sup> )	1144	136	Recommendation just completed on 22.6.2015.		



# INSPIRE Scheme : International Linkages

## INSPIRE Award:

- Nearly **60 INSPIRE Awardees** participated DST-SAKURA program at Japan in month May 2015.

## INSPIRE Scholarship:

- About **500 INSPIRE Scholars** did Internship at Germany, UK, USA, Japan and Singapore etc.

## INSPIRE Fellowship

- **HOPE Meetings, Japan** -Total **36 INSPIRE Fellows** have participated in HOPE meetings in last 4 years organized by JSPS and held in Japan.
- **Newton Bhabha PhD placement Program between India and UK- 30 Students every year** are being provisioned for going at various Institutions at UK for 3-6 months. Applications are being finalized.
- More than **25 INSPIRE Fellows** have availed short term internship in various National/ International Research Laboratories.

## INSPIRE Faculty :

- **Nearly 125 INSPIRE Faculty Awardees** have availed or are availing international exposures .

# INSPIRE Journey: Target Vs Achievement (2009-2015)

Sr No.	Components	Desired Targets per Year	Enrolment of Students			Total Expenditure (2009-2015)  Rs in crores
			2009-14	2014-15	2009-15	
1	INSPIRE Award	200,000	1041150	204536	1245686	771.28
2	INSPIRE Internship					992.39
	- No of Students	50,000	211032	42290	253322	
	- No of Camps		944	235	1179	
3	INSPIRE Scholarship	10,000	46853	27348 #	~ 47000 +	
4	INSPIRE Fellowship *	1000	3480	1000	4480	
5	INSPIRE Faculty Award **	1000 (max)	473	206	679	
		262000			1551167	1763.67

\*Since April 2010,

\*\* Since July 2011

# Offer Yet to be finalized among Eligible Students



## **SUMMARY :**

- **The desired Target Number for each Component has been achieved,**
- **So far around 15.5 lakh students enrolled. In 2014-15 number of students enrolled is nearly 2.75 lakh.**
- **Total Expenditure so far is Rs 1763.7 crores during 2009-2015 period,**
- **Operation of Scheme is completely web-based ONLINE,**
- **Call Centres (9 A.M. To 5 P.M.) is available to take care student's query,**
- **In 2015-16, each component of the INSPIRE Scheme will be implemented as per target number for that Component.**

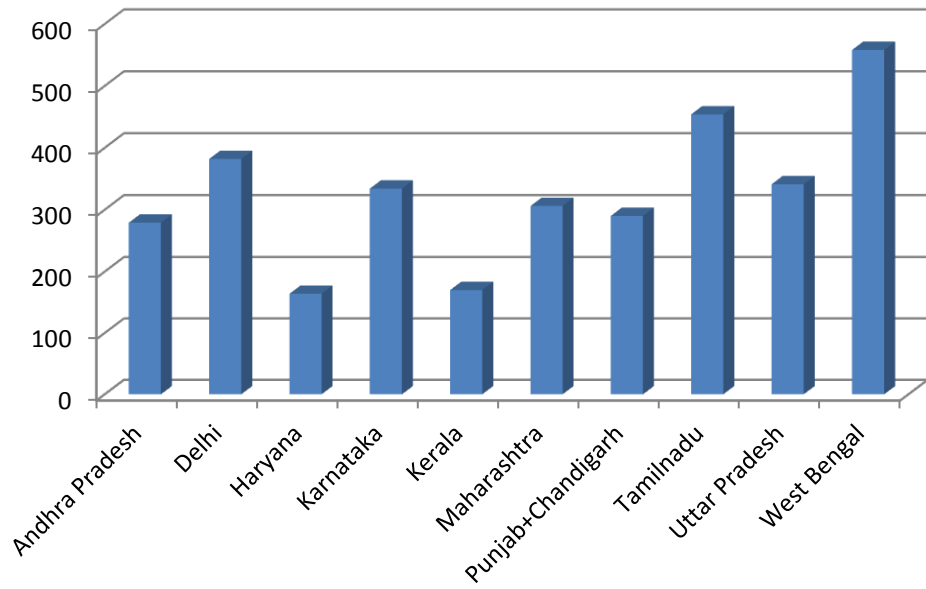
**For details at**

**[www.inspire-dst.gov.in](http://www.inspire-dst.gov.in)**

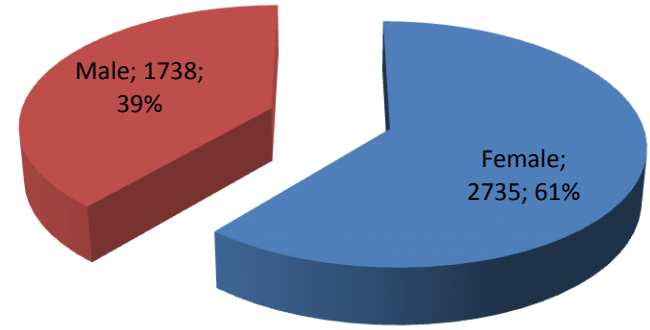
**[www.online-inspire.gov.in](http://www.online-inspire.gov.in)**

**[www.inspireawards-dst.gov.in](http://www.inspireawards-dst.gov.in)**





**10 Major States of INSPIRE Fellowship**



**Gender-wise Distribution**



# **INSPIRE Faculty Award – Support Mechanism**

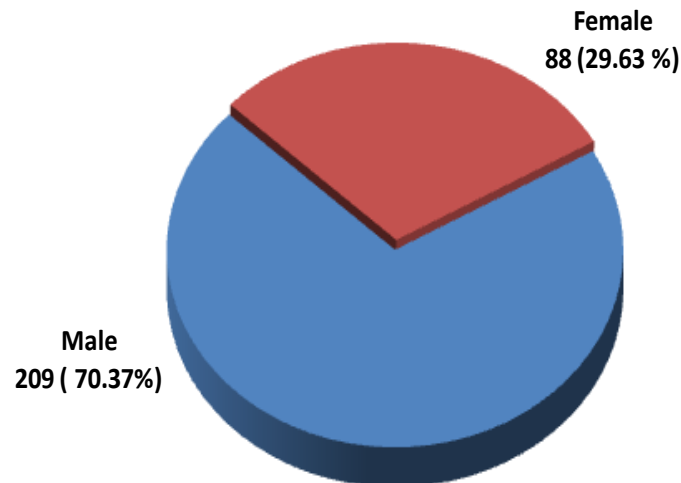
## ***Operation:***

- ❖ *Initiated on July 2011,*
- ❖ *Three Modes i.e. Direct, Nomination and Institutional for entering into this component by an eligible candidate. While Selection in Direct & Nomination Modes is done at INSA, Institute Mode pre-selection is done by concerned Academic Institute,*
- ❖ *Selection of Faculty Awardees is done by Indian National Science Academy (INSA), New Delhi.*
- ❖ *Executions of Offer & Remaining activities of Faculty Award is taken care by DST.*
- ❖ *Two tier Selection Process: 8nos. Subject Level Committees and Apex Committee for final selection of candidates pre-selected in all 3 Modes,*
- ❖ *Within 3 months of Selection, candidate is required to finalize the Host Institutions and accept the Offer. However, need-based extension of offer validity is considered up to another 6 months.*
- ❖ *Upon finalization of Host Institution and positioning there, Grants for Award Amount and Research Grant are released to the Host Institution.*

# INSPIRE Faculty Award – A few Statistics

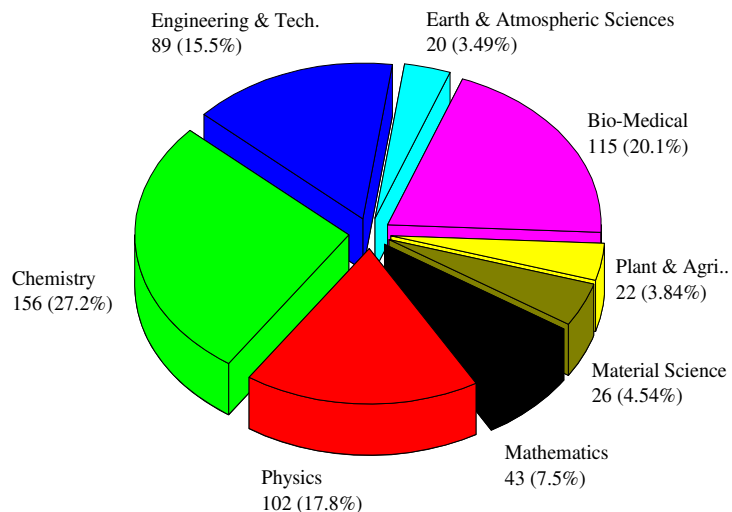
## OVERSEAS STUDENT'S SCENERIO

No of Sessions	Total Applicants	Overseas Applicants	Indian Applicants	Selected	Positioned	Offer Declined
6	5091	589 (~12%)		170 (29%)	124 (21%)	46 (8%)
<b>Overall Selection % = 11.2</b>			4502 (88%)	403 (9%)	343 (8%)	60 (1%)



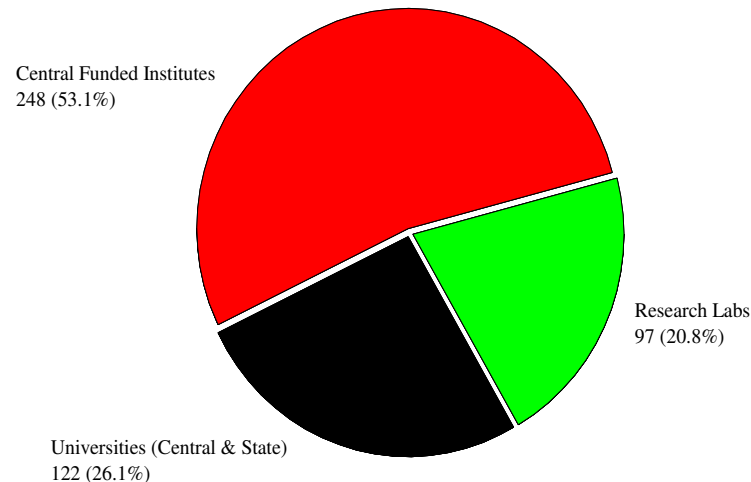
**Gender-wise Distribution**

### Subject-wise Distribution: INSPIRE Faculty Award



**Subject-wise Distribution**

### Positioning of INSPIRE Faculty Awardees at Host Institutions



**Institutional-wise Distribution**