Over the 107 years since its establishment, the Indian Institute of Science (IISc) has become India’s top-ranked institute for advanced scientific and technological research and education in India. Today IISc has over 40 departments, units, or centres, around 4000 students, and about 550 academic and scientific staff. Out of this population of students, about 2600 are in various Ph.D. programs, almost 930 are enrolled for various Masters degrees, whereas about 450 are registered in the newly established, research oriented, four year Bachelor of Science (Research) programme, of which the third batch will graduate in 2017. Recently, on an annual basis, the Institute produces 300-350 Ph.D.s, and a similar number of students graduate with various masters degrees.

The students at IISc are trained in a world-class academic environment comprising top-notch, globally connected, research faculty, and state-of-the-art research facilities. The education of the students take place in an environment of high quality fundamental and applied research, thus producing individuals who are trained to think beyond textbook material.

The courses are taught by faculty who bring to bear on teaching their unique insights gained from using the subject matter in their own research. All students, whether Doctoral, or Masters, or Undergraduate, undergo hands-on involvement in one more scientific or engineering research projects, and thereby are trained in problem formulation and solution, laboratory and/or computing skills, technical writing, technical presentation, and the peer evaluation process.

As the industry in India seeks to expand their research, design, and development activities, we are confident that the individuals we produce will provide the innovation and leadership skills that the industry will be looking for.

Our new Office for Career Counselling and Placement (OCCaP) serves as the interface between the graduating students and the prospective employers during the placement process. This Placement Booklet provides an overview of our departments/centres/units and the various academic programs.

I invite you to visit our campus to visit the research and teaching facilities, and to interview our students. OCCaP will provide you with all the required logistical support.
The Indian Institute of Science was founded by Jamshetji Nusserwanji Tata in 1909, to promote scientific temper and research aptitude in the nation.

A focus on excellence in research, the academic freedom it offers, coupled with a beautiful campus and a salubrious climate has meant that the Institute is the most sought after destination for top researchers and young minds.

With 34 departments and centres organized in to the 6 divisions of Biological, Chemical, Electrical, Mechanical, Physical & Mathematical and Interdisciplinary Sciences, IISc offers an unmatched range of technical expertise and a large talent pool for industry to choose from.

The Institute has consistently Topped National Rankings and has made the nation proud by scoring high on many reputed international rankings.

It is our endeavour to make the Institute a natural destination for companies that put a premium on intellectual capital.
Over the course of the century, many eminent personalities have been associated with the institute, among whom are stalwarts like C. V Raman, G. N. Ramachandran, Harish Chandra, S. Ramaseshan, A. Ramachandran, C. N. R. Rao and R. Narasimha. Alumni of the institute have been instrumental in kindling quality research and education across the country. Notable among them are Homi J. Bhabha who conceived the idea of Tata Institute of Fundamental Research (TIFR); Vikram Sarabhai and Satish Dhawan, the pioneers of the Indian space programme and the Indian Space Research Organization (ISRO); and J. C. Ghosh who established the first Indian Institute of Technology (IIT) at Kharagpur.
Why Recruit from IISc

Rankings
The institute has pioneered nation-leading research and education across a wide range of science and engineering fields, and university rankings by several global organizations testify this. IISc as a whole, and several departments in particular, have been consistently ranked among the best in the world, and as the absolute best in India.

IISc is also the first and only institute from India to make it to the top 10 in these rankings.

QS University Ranking
1st in India
6th among all BRICS Countries
190th Worldwide
33rd in Asia

Times Higher Education University Ranking
1st in India
27th in Asia
14th in BRICS
99th in Engineering and Technology, 201-250 Overall, Worldwide

National Institutional Ranking Framework
1st in MHRD, Govt. of India

Times Higher Education, UK 2017
( World’s Best Small Universities )
8th Worldwide

Academic Ranking of World Universities
(Shanghai Rankings)
1st in India
301-400 Worldwide
Why Recruit from IISc

Century-old Tradition
Upholding the revolutionary vision of Swami Vivekananda and J. N. Tata, IISc takes pride in producing graduates who can transform societies through their contributions to Science, Technology and Industry.

Consistently at the Top
In all recent rankings, national and international, IISc stands out as the top institute in India, attracting the best talent nationally and often globally.

Industry Interactions
Strong, long-lasting ties with industry through joint research as well as teaching programs provides our students prior exposure to the corporate environment.

World-Class Infrastructure
IISc houses state-of-the-art facilities, some even unique internationally, allowing students unparalleled exposure to the best investigational tools.

Outstanding Student Body
With stringent admission criteria, a rigorous training program that pays attention to individual needs, and a residential campus that naturally nurtures team spirit, our students grow into a community of confident, resourceful, and versatile thinkers and problem solvers.

Research Projects
Student projects are invariably designed to be published or patented when complete, giving students exposure to the highest standards of critical thinking as well as exposure to project management and completion skills.

Inter-Disciplinary Training
Students are exposed to cutting-edge research and are encouraged to take courses in the 34 departments on campus. A large number of collaborative projects are ongoing to solve problems that require multi-disciplinary approaches.

International Exposure
Participation in international conferences, exchange visits and collaborations, the presence of international students on our campus as well as regular international seminar speakers give our students continuous exposure to an international setting.

Internationally Competitive Faculty
IISc is the most sought-after destination for academics in India. Faculty members on roll are well-networked and competitive internationally.

Impactful Research
While maintaining the highest levels of academic excellence, students are trained to align their research with national missions or to address problems that would improve the human condition, preparing them to be the leaders of tomorrow.
The main emphasis of the Institute is on research, and it expects the faculty and students to initiate and carry out research programs of a quality that is on par with international standards. The Institute continuously strives to provide the required support and the entire setup is geared for facilitating the pursuit of excellence. The Institute offers complete freedom to the faculty to pursue his/her research interests. Students of the Institute get the unique opportunity to be a part of this endeavour, often setting up their own experimental facilities, interacting with internationally recognized colleagues, thus grooming themselves to be the leaders of the future.

Research at IISc

Prestigious National Awards

<table>
<thead>
<tr>
<th>Award</th>
<th>Quantity</th>
</tr>
</thead>
<tbody>
<tr>
<td>Bharat Ratna Awards</td>
<td>2</td>
</tr>
<tr>
<td>Padma Awards</td>
<td>34</td>
</tr>
<tr>
<td>JC Bose Fellowship Awards</td>
<td>70</td>
</tr>
<tr>
<td>Shanti Swarup Bhatnagar Awards</td>
<td>91</td>
</tr>
<tr>
<td>Swarnajayanti Fellowship Awards</td>
<td>31</td>
</tr>
<tr>
<td>Infosys Prizes</td>
<td>3</td>
</tr>
</tbody>
</table>

Our Patent Portfolio (1994-2014)

- Indian: 255
- USA: 94
- European: 24
- Others: 31
A representative list of companies with which IISc faculty have research interactions include Boeing, Cadila Pharmaceuticals, Daimler Chrysler, General Electric, General Motors, Hindustan Unilever Limited, Indian Immunologies, Intel, IBM, Microsoft, Nokia, Nortel, Pratt & Whitney, Bosch, Texas Instruments etc.

Some of them have set up specialized laboratories or research centers within IISc to foster long term collaborations.

**Fellowships in Academies and Institutions to IISc Faculty**

- 111 Indian National Science Academy
- 117 Indian Academy of Sciences
- 79 National Academy of Sciences
- 72 Indian National Academy of Engineering
- 10 Royal Society of London
- 33 The World Academy of Sciences
- 13 IEEE (Institution of Electrical and Electronics Engineers)
Student admission to IISc at all levels are based on highly competitive national level eligibility tests followed by interviews with wide participation from candidates. Our cutoff scores are generally the highest in the country. According to our 2016 admissions data only 1 candidate is selected among 12 M.Tech, 25 Research and 115 Undergraduate degree aspirants. Hence we are able to attract student of the highest caliber from across the country.

In addition, IISc offers admissions to a small number of candidates from the Government and Private industries. We also admit students from other countries.

All admitted regular students get a monthly stipend from the Institute. A number of our students are awarded highly coveted fellowships by the Government of India, and many industries from India and abroad.

Demographic Distribution of Students Admitted in 2016
Present day research encompasses all the domains of human knowledge, and is interdisciplinary in nature. The institute provides a varied range of academic programmes. These can be broadly divided into course programmes and research programmes or a combination of these. Students are free, and even encouraged, to take courses from outside their parent departments. Students at IISc have the unique opportunity to listen to lectures, meet and interact with eminent scientists from around the world, regularly.
Internship at Industries

The Institute allows students to take up internship positions in Industries for up to three months, without affecting academic activities. Undergraduate and Masters students may take up these internships during summer months (May to July). Research students can avail internship if their coursework is completed, subject to approvals from the advisor/ department. Longer internships are allowed with special arrangements. OCCaP plans to organize special events to facilitate such interactions between students and Industries.

Industry Interaction Events

OCCaP introduced a new initiative to engage our patron industries with our students on a one-on-one basis. This new platform strives to connect top level R&D managers, and our alumni with our graduating students. The platform was launched at an event held on October 3rd, 2016 and was attended by around 100 delegates from industries. About 100 posters were presented by students at this event.

We plan to organize visits of experts from industries to some of our key facilities/ Laboratories to explore collaborations with research groups in IISc. In addition, we plan to periodically circulate documents containing a short summary of research works of our graduating students seeking employment.

This is a flagship initiative of the Office of Career Counselling and Placement at IISc, and is supported by Society for Innovation and Development (SID, IISc) Centre for Scientific and Industrial Consultancy (CSIC, IISc) Office of Development and Alumni Affairs (ODAA, IISc), and IISc Students Council.

We seek active participation by Industries by visiting our website to explore new hiring avenues. Please see the booklet available in the downloads page of our website or contact us at placement.occap@admin.iisc.ac.in. Sponsors will be given special priority based on mutual agreement.

Please visit OCCaP website for updates on this event. We also request industries to contact us for organizing customised events in campus to facilitate such interactions.
Research students at IISc get a unique international flavour by interacting with a large number of international visitors at the campus, or by being given an opportunity to visit foreign countries for training, collaborative research, or attending conferences. More than 350 Ph.D.s graduated during 2016-17.

**STUDENT AWARDS (2016-17)**

- **18** Fellowships
- **12** Best Paper Awards
- **16** Best Poster Awards
- **8** Best Oral Presentation Awards
- **5** Best Researchers / Thesis Awards
- **7** Travel Awards
- **23** Other Awards and Medals

<table>
<thead>
<tr>
<th>Division</th>
<th>Faculty</th>
<th>Students</th>
</tr>
</thead>
<tbody>
<tr>
<td>Biological Sciences</td>
<td>82</td>
<td>405</td>
</tr>
<tr>
<td>Chemical Sciences</td>
<td>61</td>
<td>349</td>
</tr>
<tr>
<td>Electrical Sciences</td>
<td>94</td>
<td>342</td>
</tr>
<tr>
<td>Interdisciplinary Research</td>
<td>29</td>
<td>141</td>
</tr>
<tr>
<td>Mechanical Sciences</td>
<td>148</td>
<td>602</td>
</tr>
<tr>
<td>Physical and Mathematical Sciences</td>
<td>87</td>
<td>262</td>
</tr>
</tbody>
</table>
Master’s Degree Programme at IISc

IISc offers M.Tech, M.Des, M.Mgmt degrees offered in a total of 20 different specializations to around 400 students each year

Master of Technology (M. Tech.)

M. Tech. is a two-year, course based program designed to prepare students to address complex industrial and technological problems through an advanced knowledge of engineering subjects. A bachelor’s degree in the relevant engineering or a related field is necessary to enter this program. The program consists of rigorous course work involving core courses and electives and up to a year of project work.

Master of Management (M. Mgmt.)

This program aims to produce executives with expertise in Technology Management and Business Analytics and the ability to understand, assess and forecast how technologies impact the systems within and outside organizations (environment, economy and society at large). Graduates receive formal education in analytics to strengthen their capability to perform robust analyses to take decisions in information and data driven organizations.

M.Sc (Engg.) / M. Tech. (Research)

The M.Sc (Engg.) / M. Tech. (Research) are research based programs designed to prepare students for advanced engineering practice through research, development, production, design and/or management. Each student works with a research advisor and plans a program of course work and thesis research. Independent research work is assessed through a general test midway into the program and a final defense of the thesis.

Master of Design (M. Des.)

The M. Des. is a two-year full-time post-graduate program that aims to impart education in the design and development of products that are innovative and competitive. Students are trained to approach product design with a holistic viewpoint, integrating the various facets of design in a balanced and harmonious manner, and through creative problem solving, bring about innovation in the product manufacturing industry.
## Masters 2017-18 Students’ Interest in Industry

<table>
<thead>
<tr>
<th>DEPARTMENTS</th>
<th>BACHELORS</th>
<th>MASTERS</th>
<th>PH.D</th>
</tr>
</thead>
<tbody>
<tr>
<td>Aerospace Engineering</td>
<td>25</td>
<td>8</td>
<td></td>
</tr>
<tr>
<td>Atmospheric and Oceanic Sciences</td>
<td>1</td>
<td>-</td>
<td></td>
</tr>
<tr>
<td>Biochemistry/Biology/Biotech</td>
<td>-</td>
<td>7</td>
<td></td>
</tr>
<tr>
<td>Chemical Engineering</td>
<td>8</td>
<td>8</td>
<td></td>
</tr>
<tr>
<td>Chemistry (Physical, Inorganic, Organic)</td>
<td>4</td>
<td>-</td>
<td>4</td>
</tr>
<tr>
<td>Civil Engineering and Environmental Sciences</td>
<td>1</td>
<td>22</td>
<td>5</td>
</tr>
<tr>
<td>Climate Science</td>
<td>2</td>
<td>-</td>
<td></td>
</tr>
<tr>
<td>Computational and Data Sciences</td>
<td>17</td>
<td>5</td>
<td></td>
</tr>
<tr>
<td>Computer Science</td>
<td>64</td>
<td>8</td>
<td></td>
</tr>
<tr>
<td>Control Theory/Robotics</td>
<td>-</td>
<td>1</td>
<td></td>
</tr>
<tr>
<td>Earth Sciences</td>
<td>1</td>
<td>4</td>
<td>-</td>
</tr>
<tr>
<td>Electronic Communication Engineering</td>
<td>19</td>
<td>1</td>
<td></td>
</tr>
<tr>
<td>Electrical Engineering</td>
<td>21</td>
<td>8</td>
<td></td>
</tr>
<tr>
<td>Electronic System Engineering</td>
<td>28</td>
<td>1</td>
<td></td>
</tr>
<tr>
<td>Instrumentation &amp; Applied Physics</td>
<td>2</td>
<td>7</td>
<td></td>
</tr>
<tr>
<td>Management Studies</td>
<td>18</td>
<td>11</td>
<td></td>
</tr>
<tr>
<td>Materials Engineering/Sciences</td>
<td>16</td>
<td>19</td>
<td>13</td>
</tr>
<tr>
<td>Mathematics</td>
<td>5</td>
<td>-</td>
<td>4</td>
</tr>
<tr>
<td>Mechanical Engineering</td>
<td>22</td>
<td>5</td>
<td></td>
</tr>
<tr>
<td>Nano Science and Engineering</td>
<td>6</td>
<td>7</td>
<td></td>
</tr>
<tr>
<td>NeuroScience</td>
<td>-</td>
<td>2</td>
<td></td>
</tr>
<tr>
<td>Physics</td>
<td>6</td>
<td>-</td>
<td>7</td>
</tr>
<tr>
<td>Product Design</td>
<td>27</td>
<td>3</td>
<td></td>
</tr>
</tbody>
</table>
Bachelor / Master of Science (Research) Programme

Bachelor/ Master of Science(Research) is a unique program which aims to train smart students who can forge themselves as per the need and work smartly in this age of Smart Materials and Technologies. This program is designed as a blend of Core science and essential engineering skills (computer science and electronics) that can serve as launching pad to the industry. Students of this program are adaptable to the working environment and capable of learning new skills. Along with interdisciplinary courses, most of the students venture into different projects every year, learning a new set of skills. With a strong conceptual understanding and excellent hands-on experience, the versatile graduates of this program are second to none in the country.

Key Values

1) Learnability - skills for future
2) Adaptability - workplace flexibility
3) Smart work - efficiency
4) Strong conceptual understanding
5) Excellent hands-on skill
The Placement Season begins in Sept 2017 and goes on till May 2018. Invitations with the placement timeline and other relevant information are sent out to the recruiters by OCCaP. New recruiters can contact OCCaP directly by sending a brief email to [placement.occap@admin.iisc.ac.in] explaining their interest. Pre-Placement Talks are scheduled in the month of September 2017.

Interested and eligible (as per the criteria specified by the recruiter) students confirm their willingness to appear for the recruitment process of a company through online portal. Details of all such students become available to the recruiter through the OCCaP portal.

The Job Description is made available to eligible students. Only after students apply, these will be shared with the recruiter. OCCaP will schedule visits of recruiters for Online Test and Personal Interviews.

The recruiters fill an online job description form containing details of the job and the offer. They should provide compensation breakup details of the posted job opportunity. They can also include an attachment with company profile.

Recruiters can shortlist students online. Recruiters are also urged to maintain a waitlist of students who can be interviewed in the event of non-availability of some of the shortlisted students.

Recruiters visit the campus on the allotted date(s) and conduct tests and/or interviews according to their internal recruitment processes.

Interested Recruiters are registered on the OCCaP website for Final Placements and Internship Hiring. All the registered recruiters have individual login credentials for their account. The website is an interactive portal for job opportunities.

The company/recruiter is required to furnish the final list of selected students in a sealed envelope at the end of the assigned interview slot and share only with OCCaP. Recruiters are also urged to maintain a waitlist of students in case of non-availability of some of the selected students.
Interview Scheduling

1. All tests and interviews will be held within the IISc premises. Video conferencing option may be facilitated by OCCaP subject to availability.

2. Based on Student Preferences, Existing Relationship with IISc, and the package offered, OCCaP will announce a sectorwise schedule for companies to visit IISc. Recruiters will be provided a band of dates to choose from for placement tests and interviews, typically separately.

3. More than one company may be invited to campus on any day.

4. Students can register for one dream job option with OCCaP, between 9th October 2017 to 13th October 2017.

5. The Online Test will be conducted only post 5.00 p.m.

6. Personal Interviews will be scheduled in campus, details of which will be shared by OCCaP.

7. On the day of the interview in campus, No student should be held by a company more than 90 minutes (maximum 60 minutes at a stretch).

8. The final results and the waitlist should be shared in a sealed envelope with OCCaP staff.

9. Direct communication about the final results with the students for campus recruitment will not be appreciated.

10. All the communication for placement activities (Campus process/ Schedule/ Interviews/ Results etc.,) should be routed only through OCCaP.

Slot A : From 23rd October 2017 - 29th October 2017

Top Recruiters in Slot A will be decided based on certain factors. These factors will be the decision of OCCaP.

Shortlisting of candidates for the interview should be done between 23rd to 29th October. Online test will be conducted only post 5.00 p.m on any of these days.

Final results should be shared with OCCaP on the same day, but the results will be declared to the students only on completion of Slot A.

Slot B : 4th November 2017 Onwards

The Companies will be scheduled as per the CTC and other criteria.

Online test will be conducted post 5 p.m from 4th November onwards and the personal interview for the company will be scheduled the following day.

Shortlisting of the candidates should be done before the day of interview and has to be shared with OCCaP.

Final Results should be shared only with OCCaP on the day of interview.

*All the Campus Recruitment communication (Schedule, Results etc.,) has to be routed Only through Office of Career Counselling and Placement(OCCaP).
Some Past Recruiters

ABB  Power and productivity for a better world™

AIRBUS

amazon

APPLIED MATERIALS

CADILA PHARMACEUTICALS LIMITED

NASDAQ

Hero

citrix

citibank

CISCO

daimler

Dell

GE

Goldman Sachs

IBMer

HP

IBM Research

topnic

intel

MathWorks

Microsoft

MaxLinear

NATIONAL INSTRUMENTS

NVIDIA

ORACLE

PARKING

BOSCH

Rolls-Royce

SAMSUNG

Saint-Gobain

Texas Instruments

Qualcomm

TATA STEEL

tata motors

TATA CONSULTANCY SERVICES

and many more ...

Distribution of CTC for 2016-17 Master Students

- <=9L: 9%
- 9-12L: 13%
- 12-15L: 13%
- 15-18L: 21%
- 18-25L: 24%
- >=25L: 20%

placement.iisc.ernet.in
Office of Career Counselling and Placement (OCCaP)

Placement Officer

M. Bhagyalaxmi
Contact: +91- 7349559172
+91-80-22932005
Email: placement.occap@admin.iisc.ac.in
occap.iisc@gmail.com

OCCaP Committee

Prof. K.J. Vinoy, ECE (Convener)
Prof. Nagasuma Chandra, Biochemistry
Prof. Narendra Dixit, Chemical Engineering
Prof. Srikanth K Iyer, Mathematics

Visit: http://placement.iisc.ernet.in/occap

Design
Sanket Kamble, Deval Karia

Data
Parth Contractor, Debabrita Paria,
Snigdha Athaiya, Subham Mridha

Photos
Photography Club, IISc