Indo-French cooperation: Different mechanisms

Srini Kaveri

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New Delhi

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Three priorities

- Excellent science
- Industrial leadership
- Societal challenges

> 90 bn €

Health issues,
Demographic change,
Climate change
Clean and efficient energy,
Smart and integrated
Transport,
Food security, and the
Bio-based economy
Ways of Collaboration with EU

1. **Collaborative research - Horizon Europe**: Health, Water, Bi-economy, Biotechnology, Nanotechnologies, Advanced materials, ICT, Energy, ICT etc.

2. **Researchers Mobility**: Marie Skłodowska-Curie Action: PhD, Post-Doc and short-term mobility of research and innovation staff;

3. **European Research Council (ERC) grants**: Support individual researchers of any nationality and age who wish to pursue their frontier research.
H2020 and the ERC
Researchers career development and complementary EU funding schemes-
Possible path for individuals
A major player in sustainability science
National Institute for Research in Digital Science and Technology

Institut National de Recherche en Informatique et en Automatique
Some figures

• **Horizon 2020** :
  - 52 Individual Fellowships
  - 42 Innovative Training Networks (47 recruited PhD Students / 8 are still about to be recruited)
  - 8 Research and Innovation Staff Exchanges

• **FP7** :
  - 97 fellowships: 49 Individual Fellowships (IXF) & 48 Reintegration fellowships (CIG, RG)
  - 15 Innovative Training Networks (22 recruited students)
  - 3 International Research Staff Exchange Scheme
  - 1 Industry-Academy Partnerships and Pathways

Inserm has signed the Charter & Code in 2006 and has received the "HR Excellence in Research" label in June 2016.
Fundamental Research Division (CEA/DRF)

Transdisciplinarity, the core of research program whose the division is committed

Research in physics and related instrumentation
- Climate and environmental sciences
- Condensed matter physics, physics of complex systems, laser-matter interactions
- Nuclear and high-energy physics
- Astrophysics
- Cryo
tech
ologies
- Theoretical physics
- Modelling and associated tools

Microelectronics
- Nanosciences including quantronics, photonics, spintronics

Basic research in life sciences
- Fundamental biology and health
- Radiobiology, toxicology
- Fundamental biology, sustainable development and the energy transition
- Methodological innovations for fundamental biology (structural biology, omics method, etc.)

Technologies for the medicine of the future
- Medical imaging and development of associated tools
- Technologies for prevention and diagnosis
- Therapeutic innovations
- Digital health methods (large scale analysis)

Renewable energy
- Materials science and chemistry

Nuclear fusion
- Tokamak plasma physics
- Fusion systems engineering

Development of very large research infrastructures, including high performance computing

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Commissariat à l’énergie atomique et aux énergies alternatives

June 2021
EXPLORING, UNDERSTANDING AND PREDICTING THE OCEAN, FOR OUR PLANET AND OUR FUTURE

OUR MISSIONS

RESEARCH
Improving KNOWLEDGE of the ocean

INNOVATION
Contributing to BLUE GROWTH

EXPERTISE
Supporting the deployment of PUBLIC POLICIES

OUR AREAS OF EXPERTISE

- ENERGY
- MARINE
- MINERAL RESOURCES
- UNDERWATER INTERVENTION
- HEALTH
- BIOTECHNOLOGIES
- FOOD INDUSTRY
- FISHING
- AQUACULTURE
- DEFENSE
Institut national de recherche pour l'agriculture, l'alimentation et l'environnement
How can we collaborate with France?
Financing Sources

1. Cefipra
2. CNRS
3. SERB
4. Others
1. Cefipra

http://www.cefipra.org/

- **Collaborative Scientific Research Programme –CSRP** focuses on academia-to-academia collaborations between Indian and French academic collaborators in various domains.

- **Industry Academia Research & Development Programme - IARDP** emphasizes to develop the linkage between Industry and Academia from France and India.

- **Seminars/Workshops/Training Schools** in topics of current relevance and interest to both India and France in the areas of Science &Technology

**TWO CALLS PER YEAR !!**
Raman-Charpak Scholarship: Doctoral stay in France

For students already enrolled for PhD in India
For a doctoral stay in a French lab
Duration: 2-6 months
Amount: 1500 €/months

Also for students doing their Master or PhD in France, for a doctoral stay in an Indian lab

Fields of research: Atmospheric and Earth Sciences, Chemical Sciences, Engineering Sciences, Life and Medical Sciences, Material Sciences, Mathematical and Computational Sciences, Physical Sciences, Environmental Sciences
Charpak Programme: Master and Bachelor
www.inde.campusfrance.org

**Charpak Exchange (Autumn and spring session)**
- Living allowance of **700 euros**
- Student visa and Campus France fee waiver
- Assistance to find affordable student accommodation

**Charpak LAB**
- Monthly stipend for maximum 3 months (May to July) of **650 / 800 euros** (students interning outside / in Paris)
- Student Visa and Campus France fee waiver
Schemes & Programs

- Intensification of Research in High Priority Areas (IRHPA)
- Start-up Research Grant (SRG)
- Core Research Grant
- Scientific and Useful Profound Research Advancement (SUPRA)
- Empowerment and Equity Opportunities for Excellence in Science
- Mathematical Research Impact Centric Support (MATRICS)
- Impacting Research Innovation and Technology (IMPRINT-2)
- International Travel Support
- Seminar/Symposia
- Short-term special call on COVID-19
- SERB-POWER Grant

https://www.serbonline.in/SERB/HomePage#
Awards & Fellowships

- National Post Doctoral Fellowship
- J.C. Bose Fellowship
- Ramanujan Fellowship
- Teachers Association for Research Excellence (TARE)
- Visiting Advanced Joint Research Faculty (VAJRA)
- Overseas Visiting Doctoral Fellowship (OVDF)
- SERB Science and Technology Award for Research (SERB-STAR)
- SERB Women Excellence Award
- SERB-POWER Fellowship
- SERB Technology Translation Award (SERB-TETRA)
- National Science Chair
For International Faculty

Research and Mobility Funding in India

Are you a scientist, faculty member or R&D professional?
Are you looking for research and mobility funding in India?

Here are some interesting schemes by the Government of India
Visiting Advanced Joint Research (VAJRA)

- An opportunity to do research with the fastest growing major economy
- An opportunity to work with talented Indian researchers
- An opportunity for accomplished researchers worldwide
SPARC aims to enhance collaboration between Indian academic and research institutions, and the best foreign institutions, mainly by increasing foreign faculty and student participation in Indian institutions, promoting high quality joint research monographs, joint workshops/conferences and GIAN-type courses.
Global Initiative for Academic Networks (GIAN) in Higher Education is aimed at tapping the talent pool of scientists and entrepreneurs internationally to encourage their engagement with the institutes of Higher Education in India so as to augment the country's existing academic resources, accelerate the pace of quality reform, and elevate India's scientific and technological capacity to global excellence. GIAN is envisaged to catalyse higher education institutions in the country, and that it will initially include all IITs, IIMs, Central Universities, IISc Bangalore, IISERs, NITs and IIITs subsequently cover good State Universities where the spinoff is vast. GIAN is an evolving scheme which will initially include participation of foreign faculty in Institutes as Distinguished / Adjunct / Visiting faculty / Professors of Practice, etc., to participate in delivering Short or Semester-long Courses. Other activities will be included in due course.
**CONTACTS**

**V AJRAR C IN S ERB N INDIA**

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Science and Engineering Research Board  
5 & 5A, Lower Ground Floor  
Vasant Square Mall  
Sector-B, Pocket-5  
Vasant Kunj  
New Delhi-110070

Phone: 011 2659 0353  
Tele fax: 011 2696 3695  
E-mail: praveen@nic.in

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**SPARC**  
Scheme for Promotion of Academic and Research Collaboration

**SPARC Cell**  
Indian Institute of Technology  
Kharagpur  
Kharagpur 721302  
West Bengal, INDIA

Email: support@sparc.iitkgp.ac.in  
Website: http://sparc.iitkgp.ac.in

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**GIAN**  
Global Initiative for Academic Networks  
Indian Institute of Technology, Kharagpur  
Kharagpur - 721302, India

**Official Query**  
Email: gian@iitkgp.ac.in  
Phone: +91-3222-282288

**Technical Queries of GIAN Application Portal**  
Email: ddpasad@gmail.com  
CC To: technicalgian@gmail.com

**Profile Updating, Courses Registration & Participant Login Portal**  
Email: kdkuntalxyz@gmail.com  
CC To: technicalgian@gmail.com

**UC Related Query or Submission**  
Email: uc.gian.iitkgp@gmail.com
Young International Faculty Program
Young International Faculty – Program & Responsibilities

Program Objective
To recruit full-time foreign faculty (non-Indian citizens/non-OCIs) at the equivalent level of Assistant Professor.

Targeting recent doctoral graduates who would like to primarily focus on academic research with a host research group at IITM. As a faculty member within the research group, the YIF will also jointly supervise M.S. and Ph.D. students. The faculty member may also assist in teaching.

Ratio of time allocated for research: teaching is 90%:10% (approximately).

Expectations of the YIF:
- The establishment of an independent, high-impact research program within the larger framework of the affiliated research group by the end of the 1st year
- Significant and measurable research output (such as papers in top journals in related field, patent filing, industry/socially-relevant solutions, etc.) by the end of the 2nd & 3rd years

The YIF Program is seeking recent doctorates and post doctoral Fellows from renowned universities across the globe.

Applications should be made through a host faculty member at IIT Madras in the form of a detailed academic CV, stating the educational background of the applicant, research plan and industrial consultancy plan (if applicable), details of prior research output, awards & other recognitions.
Short-term Visiting program for French students/researchers at Indian Institute of Science, Bangalore
CNRS was created on 19 October 1939

"Il n’est pas de science possible où la pensée n’est pas libre, et la pensée ne peut pas être libre sans que la conscience soit également libre. Chacun de nous peut bienmourir, mais nous voulons que notre idéal vive".

Jean Perrin, 23 septembre 1939, extrait du discours rac.

“...the mobilization of French laboratories through CNRS amounted to the creation of a new regiment.”

“CNRS. la naissance” c’est aussi une exposition virtuelle; www.cnrs.fr/paris-michel-ange/CNRSnaissance/
Our 10 scientific DEPARTMENTS (Instituts)

Mathematical Sciences & their Interactions
Information Sciences & Technologies
Engineering & Systems Sciences
Chemistry
Physics

Nuclear & Particle Physics
Earth Sciences and Astronomy
Ecology & Environment
Biological Sciences
Humanities & Social Sciences
CNRS - French National Centre for Scientific Research

- Interdisciplinary public research organisation
- Internationally recognised for the excellence of its scientific research

Research fields:
- Biology
- Chemistry
- Ecology and environment
- Humanities and social sciences
- Engineering and systems
- Mathematics
- Nuclear and particles
- Physics
- Information sciences
- Earth sciences and astronomy

3.3 billion
A budget of

33,000
people dedicated
to research

1,144
research laboratories in
France and abroad

CNRS participation in Horizon 2020 (2014-2020)

- Participation in 1728 H2020 projects (~18% success rate) including 507 MSCA projects (all actions incl.)
- 324 MSCA Individual Fellowships funded (17.3% success rate)

https://www.cnrs.fr/en
CNRS in Numbers

- **Research**
  - Over 55,000 publications per year, 60% of which with international collaboration
  - 6th in patent filing

- **Resources**
  - Budget 2021: 3.7 Billion €
  - Over 32,000 staff at CNRS

- 12 Fields Medal winners
- 23 Nobel Laureates

Implantations

- Over 1100 research units
- 80 International Res Labs
- 10 offices all over the world

Alain Aspect
Physics 2022
India's top 10 scientific partner countries in 2019-21
(N= 112,800 international co-publications)

<table>
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<tr>
<th>Country</th>
<th>Number of Co-publications</th>
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<tr>
<td>USA, 32530</td>
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<tr>
<td>UNITED KINGDOM, 15380</td>
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<td>SOUTH KOREA, 9782</td>
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<td>ITALY, 6953</td>
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<td>FRANCE, 6835</td>
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<tr>
<td>CANADA, 6745</td>
<td></td>
</tr>
</tbody>
</table>

Source: Web of Science, Incites; traitement CNRS-Derci
Scientific cooperation agreements

- Department of Science and Technology (DST) Ministry of Science & Technology: 2004, 2012 and 2015
- Department of Biotechnology (DBT) (2015) Centre of Excellence in Marine Biotechnology (Goa)
- Indian Institute of Science Education and Research (2016)
- National Centre for Biological Sciences (NCBS) Signed in 2012 with Institut Curie
# Tools of cooperation with CNRS

<table>
<thead>
<tr>
<th>Exploring</th>
<th>Consolidating</th>
<th>Structuring</th>
<th>Integrating</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>International Emerging Actions</strong></td>
<td><strong>International Research Networks</strong></td>
<td><strong>International Research Programmes</strong></td>
<td><strong>International Research Centres</strong></td>
</tr>
<tr>
<td>2-year PI-to-PI research projects</td>
<td>5-year multi-team scientific coordination networks</td>
<td>5-year labs-to-labs collaborative research programmes</td>
<td>multi-project (incl. actions, networks, programmes, laboratories, dedicated calls) strategic partnerships</td>
</tr>
<tr>
<td>yearly call for proposals</td>
<td>institutional endorsement by exchanges of letters of support</td>
<td>5-year joint research laboratories</td>
<td>framework agreements or MOU bilateral steering</td>
</tr>
</tbody>
</table>

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**Instruments for International Collaboration**

[www.cnrs.fr](http://www.cnrs.fr)
Trapping investigation in GaN-based HEMTS using experimental characterisation and TCAD simulation (2018-2020)

Nandita DASGUPTA, IITM, Chennai

Nanoelectronics hardware for unconventional computing (2018-2020)

Manan SURI, IITD, Delhi
Damien QUERLIOZ, Centre de Nanosciences et de Nanotechnologies, Université Paris-Saclay,

Role of prebiotic processes on the origin of molecular complexity on the early Earth
DERR Julien, Paris
Sudha RAJAMANI, IISER Pune

Microwave remote sensing for water resources management in berambadi watershed ZRIBI
Mehrez, TOULOUSE
Sekhar MUDDU, IISc, Bangalore

Advanced Nanocomposites for micro and nanoSensors Applications
ROUXEL Didier, Institut Jean Lamour, Nancy
Sabu THOMAS, Mahatma Gandhi University, Kottayam,
International Research Programme

Indo-French Cell for Water Sciences (IFCWS)
IRDI/INRA/CRNS (J. Rotta / L. Ruiz)
ICS-Brèoe (Sekhar Mudu)

Indo-French Lab of Solid State Chemistry (LAFICS)
ICMCB, UPR9048 (MH Delville, Bordeaux)
IES – SSUJ, BJUre (Satish Patil / Abhishek Mondal)

NextGen (2022-2027)
Next-Generation (Macro)-Molecular Self-Assembled Systems
Jean-François Lutz, CNRS UPR22 Institut Charles Sadron, Strasbourg
S. Ramakrishnan, Dept Inorganic and Physical Chemistry, IISc, Bangalore

CALIM (2022-2027)
Impact and regulation of Calcium signaling in Drosophila immune cells
Angela GANGRANDE, Institut de génétique et de biologie moléculaire et cellulaire, Strasbourg
Gautam HASAN, National Centre for Biological Sciences (NCBS), Bangalore

SySTIM (2022-2027)
Impact and regulation of Calcium signaling in Drosophila immune cells
Thomas LECHIT, Institut de Biologie du Développement de Marseille (IRD)
Jitu MAYOR, National Centre for Biological Sciences (NCBS)

Advanced polymer nanocomposites for microactuator and energy harvesting devices (APONAMA)
Inst Jean Lamour Nancy (Didier ROUXEL)
International and Inter University Centre for Nanoscience and Nanotechnology (Sabu THOMAS / Nandu)

SPINPER (2018-2022)
Social Profile of Indian's National and Provincial Elected (1919-2019)
Giller VERNIER, Ashoka University, Sonipat
Christophe JAFFRELOT, Centre de recherches internationales (CERI), Paris

GANGA-Rhone Project
SRIFW GHAR, IT BHU
Hervé Piegay, UMR5600 EVS, ENS de Lyon

Nat Prod & Synth towards Affordable Health (NPSAH)
Uni Rennes, UMR8246, Rennes (J. Kostka)
IICT, H’bad, (Giriraj Chandra Sekhar / Raj REDDY)

IPPM (2016-2019)
Indo-French Program in Mathematics
Ramachandran Balasubramanian, Institute of Mathematical Sciences,
Chennai
Patrice Philippon, Institut de mathématiques de Jussieu - Paris Rive Gauche

MEMS and GaN Development Throug Complementary Collaboration (MEGATHRON)
J.C. NALLATAMBY, Institute of Mathematical Sciences, Chennai
Nandita DASGUPTA, IIT Madras

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Nandita DASGUPTA, IIT Madras
International Research Laboratories (UMI)

IRL : Indro-French Centre for Applied Mathematics
IFCAM: UMI 949
Uni Paul Sabatier, Toulouse (JP Raymond)
IISc, Bangalore, (G Rangarajan)

IRL : Indro French Research Lab In Computer Science (RELAX)
UMI 2000
Chennai Mathematical Institute, Siruseri (R. Karandikar)
Décret n°82-993, 24 November 1982: CNRS missions are:

- To evaluate and carry out research capable of advancing knowledge and bringing social, cultural, and economic benefits to the society.
- To contribute to the application and promotion of research results.
- To develop scientific information.
- To support research training.
- To participate in the development of the national policy.

CNRS and Industrial partnerships

Consultancy
  - Training
- Technology transfer

Promotion of research

Mobility

Creation of Start up companies

Industrial partnerships
CNRS and Solvay
4 mixed laboratories to prepare the future

2004
- Lab of the Future (LOF)
  Bordeaux, France

1997
- Complex Assemblies of Soft Matter (COMPASS) Lab
  Bristol, USA

Eco-Efficient Products and Processes Lab (E2P2L)
Shanghai, China

2009
- Polymers Advanced Lab
  Lyon, France

2011

Visit of Alan Fuchs and CNRS delegation to Solvay RIC Shanghai and E2P2L
28th May 2015
## Top 20 topics of India's publications 2019-21 (N=406800)

<table>
<thead>
<tr>
<th>Name</th>
<th>Web of Science Documents</th>
<th>Category Normalized Citation Impact</th>
</tr>
</thead>
<tbody>
<tr>
<td>MATERIALS SCIENCE MULTIDISCIPLINARY</td>
<td>46655</td>
<td>1,05</td>
</tr>
<tr>
<td>ENGINEERING ELECTRICAL &amp; ELECTRONIC</td>
<td>40943</td>
<td>0,86</td>
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<tr>
<td>PHYSICS APPLIED</td>
<td>19887</td>
<td>0,89</td>
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<tr>
<td>CHEMISTRY PHYSICAL</td>
<td>19035</td>
<td>0,77</td>
</tr>
<tr>
<td>TELECOMMUNICATIONS</td>
<td>18810</td>
<td>0,94</td>
</tr>
<tr>
<td>ENVIRONMENTAL SCIENCES</td>
<td>18154</td>
<td>1,17</td>
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<tr>
<td>CHEMISTRY MULTIDISCIPLINARY</td>
<td>18120</td>
<td>0,76</td>
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<tr>
<td>COMPUTER SCIENCE THEORY &amp; METHODS</td>
<td>18088</td>
<td>0,74</td>
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<tr>
<td>COMPUTER SCIENCE ARTIFICIAL INTELLIGENCE</td>
<td>16825</td>
<td>0,74</td>
</tr>
<tr>
<td>COMPUTER SCIENCE INFORMATION SYSTEMS</td>
<td>15275</td>
<td>1,04</td>
</tr>
<tr>
<td>BIOCHEMISTRY &amp; MOLECULAR BIOLOGY</td>
<td>14815</td>
<td>0,83</td>
</tr>
<tr>
<td>ENERGY &amp; FUELS</td>
<td>13405</td>
<td>1,02</td>
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<tr>
<td>PHYSICS CONDENSED MATTER</td>
<td>12258</td>
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<tr>
<td>ENGINEERING CHEMICAL</td>
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<tr>
<td>PHARMACOLOGY &amp; PHARMACY</td>
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<tr>
<td>MECHANICAL ENGINEERING</td>
<td>9450</td>
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<tr>
<td>NANOSCIENCE &amp; NANOTECHNOLOGY</td>
<td>8978</td>
<td>0,67</td>
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<tr>
<td>COMPUTER SCIENCE INTERDISCIPLINARY APPLICATIONS</td>
<td>8791</td>
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<tr>
<td>BIOTECHNOLOGY &amp; APPLIED MICROBIOLOGY</td>
<td>8009</td>
<td>0,95</td>
</tr>
<tr>
<td>PLANT SCIENCES</td>
<td>7984</td>
<td>0,84</td>
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Source: Web of Science, Incites; traitement CNRS-Derci
The research areas of the **CNRS-India 2019-21 joint publications (n=3300)**

<table>
<thead>
<tr>
<th>Name</th>
<th>Web of Science Documents</th>
<th>Category Normalized Citation Impact</th>
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<tbody>
<tr>
<td>ASTRONOMY &amp; ASTROPHYSICS</td>
<td>661</td>
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<tr>
<td>PHYSICS PARTICLES &amp; FIELDS</td>
<td>539</td>
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<td>PHYSICS NUCLEAR</td>
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<td>MATERIALS SCIENCE MULTIDISCIPLINARY</td>
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<td>PHYSICS APPLIED</td>
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<td>ENVIRONMENTAL SCIENCES</td>
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<tr>
<td>ENGINEERING ELECTRICAL &amp; ELECTRONIC</td>
<td>112</td>
<td>0.97</td>
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</table>
Thales PhD Program

IIT-Delhi

IIT-Bombay

IISER Pune

IISc, Bengaluru

IIT Madras
Congratulatory Note from Prof Vijay Raghavan, PSA
Congratulatory Note from Prof Renu Swarup, Secr, DBT
Congratulatory Note from Prof Ashutosh Sharma Former Secr, DST
Higher Education and Research Opportunities in EU and France
Thank you!

jerome.bove@diplomatie.gouv.fr