

Individual International Fellowships & Schemes

Delegation of the European Union to India Research & Innovation Section

Vivek DHAM, Advisor for R&I



The European Research Council



European Research Council Established by the European Commission







- An autonomous funding body set up by the EU in 2007 and led by scientists
- Funding excellent researchers of any nationality, to carry out frontier research in Europe, via annual competitions
- In all fields of science and humanities, without thematic priorities
- 1 researcher, 1 Host Institution, 1 project, 1 selection criterion
- Substantial grants and a recognised label of excellence
- International, top level peer-review



ERC basics ERC structure



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The European Commission

- Provides financing through the EU framework programmes
- Guarantees autonomy of the ERC
- Assures the integrity and accountability of the ERC
- Adopts annual work programmes as established by the Scientific Council

The ERC Scientific Council

- 22 prominent researchers proposed by an independent identification committee
- Appointed by the Commission (4 years, renewable once)
- Establishes overall scientific strategy; annual work programmes (incl. calls for proposals, evaluation criteria); peer review methodology; selection and accreditation of experts
- Controls quality of operations and management
- Ensures communication with the scientific community

The ERC Executive Agency

- Executes annual work programme as established by the Scientific Council
- Implements calls for proposals and provides information and support to applicants
- Organises peer review evaluation
- Establishes and manages grant agreements
- Administers scientific and financial aspects and follow-up of grant agreements
- Carries out communications activities and ensures information dissemination to ERC stakeholders



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ERC basics ERC Scientific Council Members



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Prof. Klaus BOCK (Chemistry)

Prof. Jean-Pierre BOURGUIGNON (Mathematics), ERC President

- Prof. Nicholas CANNY (History)
- Prof. Sierd A.P.L. CLOETINGH (Earth Sciences)
- Prof. Tomasz DIETL (Physics)
- Prof. Daniel DOLEV (Computer Sciences)
- Prof. Athene DONALD (Biological Physics)
- Dr. Barbara ENSOLI (Medicine)
- Prof. Pavel EXNER (Applied Mathematics & Mathematical Physics), ERC Vice President
- Prof. Reinhard GENZEL(Astrophysics)
- Prof. Carl-Henrik HELDIN (Molecular Cell Biology), ERC Vice President
- Prof. Timothy HUNT (Biology)
- Prof. Matthias KLEINER (Engineering)
- Prof. Eva KONDOROSI (Biology)
- Prof. Nuria SEBASTIAN GALLES (Psychology)
- Prof. Nils Christian STENSETH (Ecology & Evolution)
- Prof. Martin STOKHOF (Philosophy)
- Prof. Mart SAARMA (Biology)
- Prof. Anna TRAMONTANO (Biochemistry)
- Prof. Isabelle VERNOS (Molecular and Cell Biology)
- Prof. Reinhilde VEUGELERS (Economics)
- Prof. Michel WIEVIORKA (Sociology)



ERC basics ERC funding schemes



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Starting Grants

starters (2-7 years after PhD) up to € 2.0 Mio for 5 years

Consolidator Grants

consolidators (7-12 years after PhD) up to € 2.75 Mio for 5 years Advanced Grants track-record of significant research achievements in the last 10 years up to € 3.5 Mio for 5 years

Synergy Grants 2 - 4 Principal Investigators up to € 15.0 Mio for 6 years Proof of Concept bridging gap between research - earliest stage of marketable innovation up to €150,000 for ERC grant holders



27

ERC basics Substantial grants to the very best



- The Researcher (PI : Principal Investigator)
 - ERC funds individual scientists
 - Any nationality, age or current place of work in the world
 - Starting, consolidator or advanced grant (depending on work experience and scientific achievements)
- Research team
 - The PI can choose EU national or trans-national team members if scientific added value proven
 - The grant covers the salary of team members







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• Frontier research project

- All fields of fundamental research: Physical Sciences & Engineering, Life Sciences, Social Sciences & Humanities
- Bottom-up: no predetermined subjects, no priorities
- High risk/high gain
- 5 years projects
- No consortia
- Host Institution (HI) in Europe
 - EU Institute in any EU Member State, or any other institution established in the EU or associated countries
 - Grants are portable (= the PI can change Host Institution)
 - Universities, research centres; public or private
 - 50% of her/his total working time at a host institution in an EU Member State







- Goal of the evaluation: select the best frontier research proposals
- Only evaluation criteria: excellence
- Method: peer review
- Structure: 25 panels distributed in 3 scientific domains (10 Physical Sciences, 9 Life sciences and 6 Social Sciences and Humanities)
- Each panel consists of 1 panel chair and 12-16 panel members

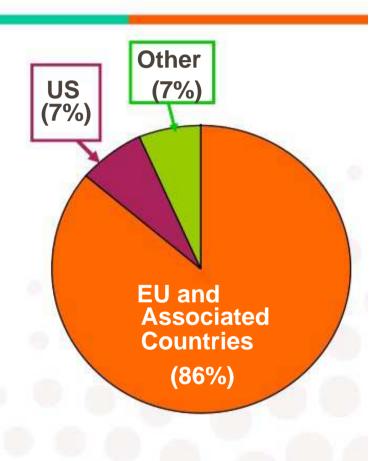


ERC basics Evaluation of proposals: peers



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- Panel members: typically 375 / call
 - High-level scientists
 - Recruited by ScC from all over the world: ~14% from outside Europe
 - About 12-16 members plus a chair person
- Referees: typically 2000 / call
 - Evaluate only a small number of proposals
 - Similar to normal practise in peerreviewed journals

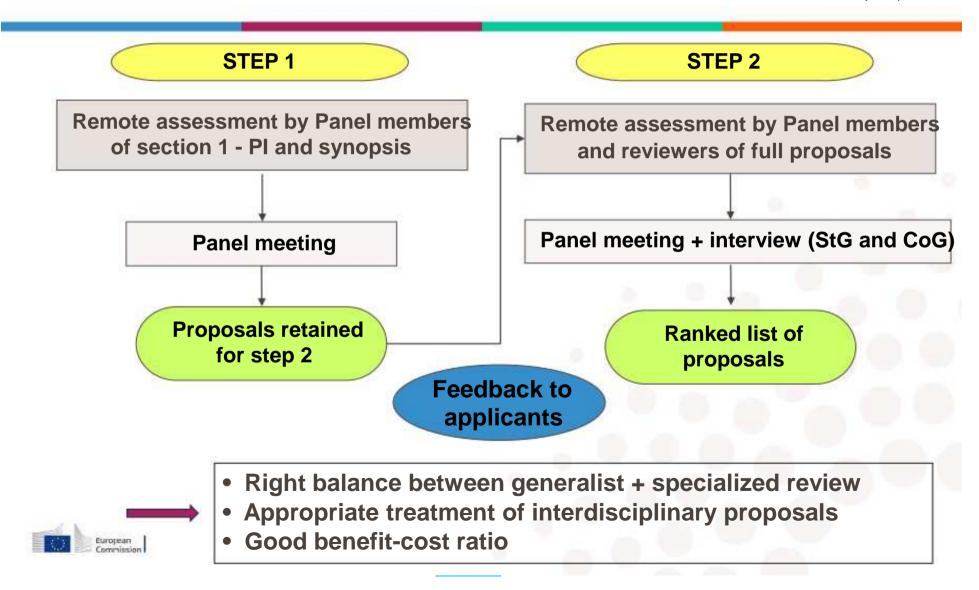




ERC basics Evaluation of proposals: review procedure



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ERC basics Evaluation of proposals: panel structure



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Life Sciences

- LS1 Molecular & Structural Biology & Biochemistry
- LS2 Genetics, Genomics, Bioinformatics & Systems Biology
- LS3 Cellular and Developmental Biology
- LS4 Physiology, Pathophysiology & Endocrinology
- LS5 Neurosciences & neural disorders
- LS6 Immunity & infection
- LS7 Diagnostic tools, therapies & public health
- LS8 Evolutionary, population & environmental biology
- LS9 Applied life sciences & biotechnology

Social Sciences and Humanities

- SH1 Individuals, institutions & markets
- SH2 Institutions, values, beliefs and behaviour
- SH3 Environment ,space and population
- SH4 The Human Mind and its complexity
- SH5 Cultures & cultural production
- SH6 The study of the human past

Physical Sciences & Engineering

- PE1 Mathematics
- PE2 Fundamental constituents of matter
 - PE3 Condensed matter physics
 - PE4 Physical & Analytical Chemical sciences
- PE5 Materials & Synthesis
- PE6 Computer science & informatics
- PE7 Systems & communication engineering
- PE8 Products & process engineering
- PE9 Universe sciences
- PE10 Earth system science





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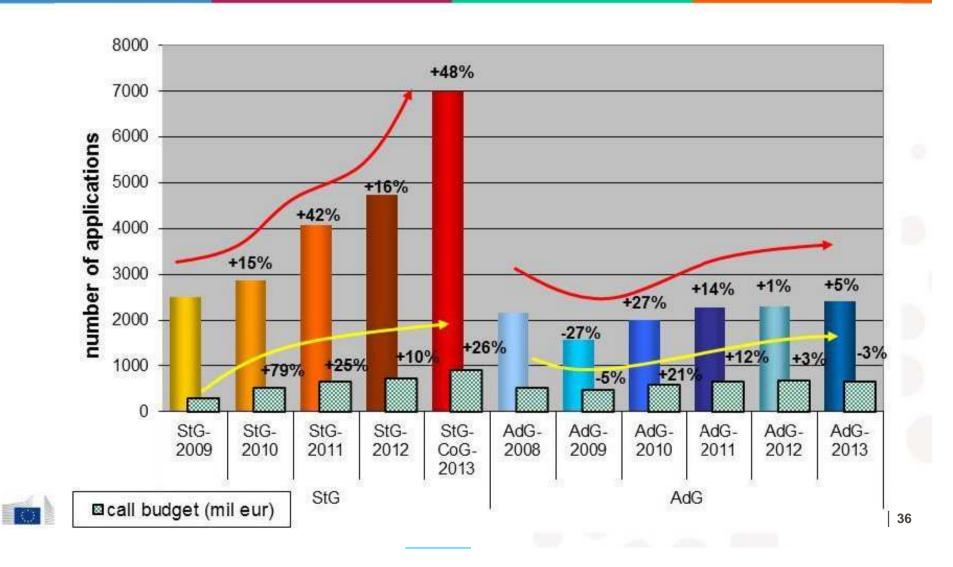
ERC achievements



ERC achievements Rising applications



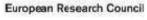
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ERC Calls

		Of which		
ERC Call	Applications received	Evaluated*	Evaluated* Funded	
Starting Grant 2007	9,167	8,787	299	3.4
Starting Grant 2009	2,503	2,392	245	10.2
Starting Grant 2010	2,873	2,767	436	15.8
Starting Grant 2011	4,080	4,005	486	12.1
Starting Grant 2012	4,741	4,652	566	12.2
Starting Grant 2013	3,329	3,266	300	9.2
Starting Grant total	26,693	25,858	2,332	10.5***
Consolidator Grant 2013	3,673			
Consolidator Grant total	3,673			
Advanced Grant 2008	2,167	2,034	282	13.9
Advanced Grant 2009	1,584	1,526	245	16.1
Advanced Grant 2010	2,009	1,967	271	13.8
Advanced Grant 2011	2,284	2,245	301	13.4
Advanced Grant 2012	2,304	2,269	319	14.1
Advanced Grant 2013	2,408	2,363	284	12.0
Advanced Grant total	12,756	12,404	1,702	13.9***
Proof of Concept 2011	151	139	51	36.7
Proof of Concept 2012	143	120	60	50.0
Proof of Concept 2013	145	139	33	23.7
Proof of Concept total	439	398	144	36.8***
Synergy Grant 2012	710	697	- 11	1.6
Synergy Grant 2013	450	427	13	3.0
Synergy Grant total	1,160	1,124	24	2.1***



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* Ineligible and withdrawn proposals not taken into account

** Basis: evaluated proposals

European

ERC achievements After 6 years of existence...



- Highly recognised by the research community
- 4 000 top researchers funded (65% are at an early-career stage); 58 nationalities represented
- Highly competitive (average success rate 12%)
- Working in >500 different institutions in 29 countries
- 50% of grantees in 50 institutions : "Excellence attracts excellence"
- Benchmarking effect: impact on national programmes and agencies; national funding for best "runners-up"
- Efficient and fast grant management



ERC achievements Publication from ERC funded projects



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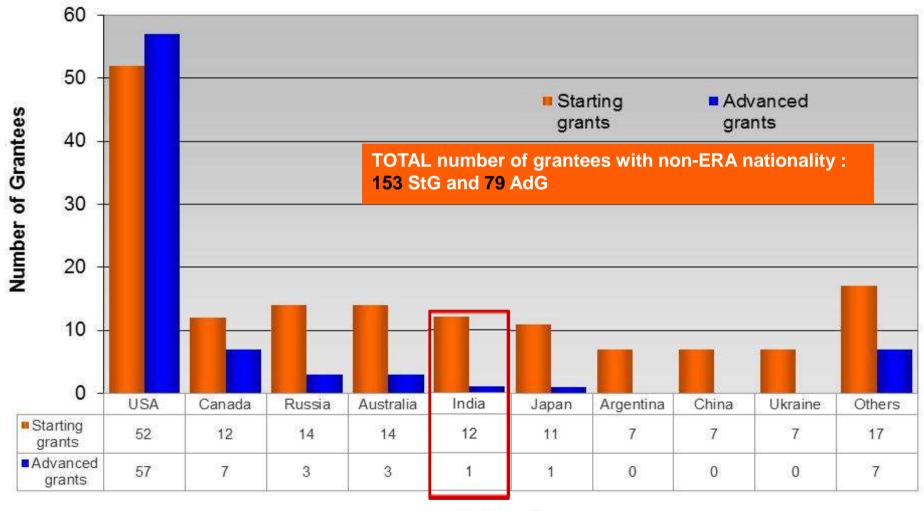
Cumulative number of publications acknowledging ERC support Year of publication

Already over **20.000** papers acknowledging ERC support published in international, peer reviewed journals.





Indian in ERC Non-European* ERC grantees in FP7



Nationality



Grantees with Indian nationality

ERC Starting Calls 2007 – 2012 ERC Advanced Calls 2008 - 2012

13 Indian grantees (3 women)

country*	Project title	HI country**	ERC call	Domain	Grantee
	Dissecting the biogenesis of eukaryotic ribosomal subunits	СН		Life Science	1
	Small RNA-guided complex machinery for epigenetic silencing	DE		Life Science	1
	Mechanics of ESCRT-III mediated membrane scission	UK	StG-2010	Life Science	1
	CRYSP: A Novel Framework for Collaboratively Building Cryptographically Secure Programs and their Proofs	FR		Phys Sci & Eng.	1
	A theory of quantitative graph games	AT		Phys Sci & Eng.	1
Findin and c Intera 3D dis India Contra divisio STRU COMF EQUA Smar	Finding order to harness chaos: A new approach to understanding and controlling high Reynolds-number wall-bounded turbulence.	UK	StG-2011	Phys Sci & Eng.	1
	Interactive Systems Involving Multi-point Surfaces, Haptics and true- 3D displays	UK		Phys Sci & Eng.	1
	Control mechanisms that pattern microtubules for switching cell division planes during plant morphogenesis	BE		Life Science	1
	STRUCTURE PRESERVING APPROXIMATIONS FOR ROBUST COMPUTATION OF CONSERVATION LAWS AND RELATED EQUATIONS	СН	StG-2012	Phys Sci & Eng.	1
	Smart interrogation of the immune synapse by nano-patterned and soft 3D substrates	FR		Phys Sci & Eng.	1
	Parameterized Approximation	NO		Phys Sci & Eng.	1
	Partially Coherent Many-Body Nonequilibrium Dynamics for Information Applications	UK		Phys Sci & Eng.	1
	Modern Moves: Kinetic Transnationalism and Afro-Diasporic Rhythm Cultures	UK	AdG-2012	Soc Sci & Hum	1

**) current host institution (data as 29/01/2013)



Indian in ERC





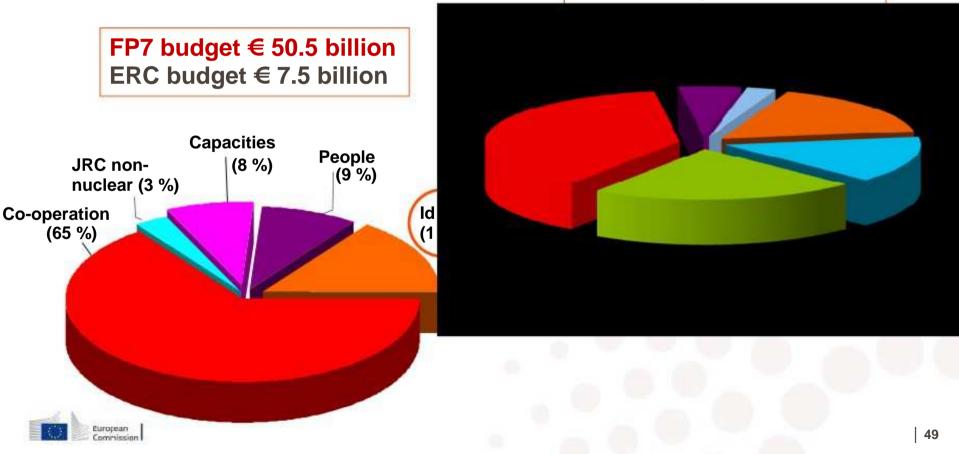
HORIZON 2020

ERC in H2020 Budget Horizon 2020



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H2020 budget € 77 billion ERC budget € 13.1 billion



ERC in H2020 Work program 2014 planning



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ERC calls	Budget	Call Publication	Submission Deadline(s)
Starting Grants ERC-2014-StG	485 M€	11 December 2013	25 March 2014
Consolidator Grants ERC-2014-CoG	713 M€	11 December 2013	20 May 2014
Advanced Grants ERC-2014-AdG	450 M€	17 June 2014	21 October 2014
Proof of Concept ERC-2014-PoC	15 M€	11 December 2013	DL1: 1 April 2014 DL2: 1 Oct. 2014



The European Research Council



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More information on http://erc.europa.eu

National Contact Point in your country

http://erc.europa.eu/national-contact-points

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Doctoral training under Marie Skłodowska-Curie actions



MSC Actions

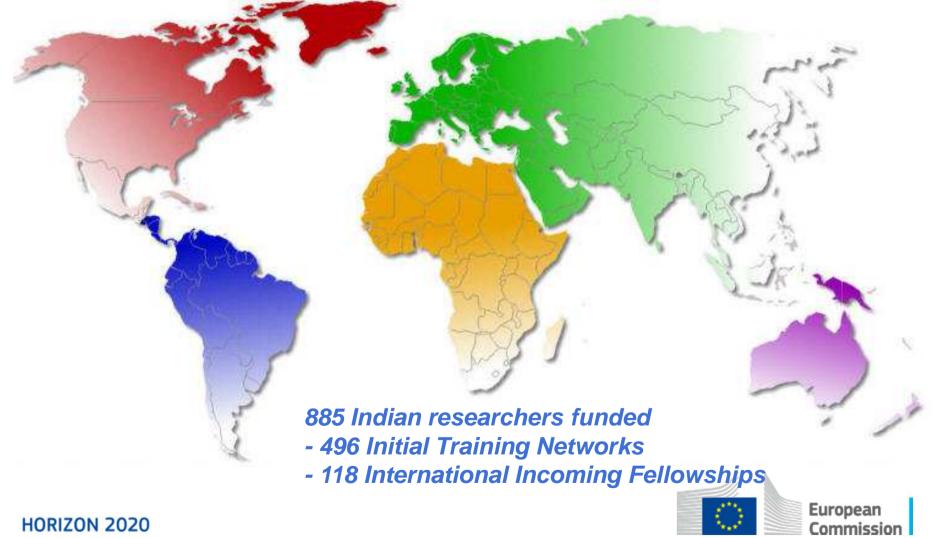


... are a significant EU fellowships programme since the early 1990s

... support the mobility, training and career development of researchers of all nationalities

... fund all domains of research (bottom-up approach) and the financing rate is 100%







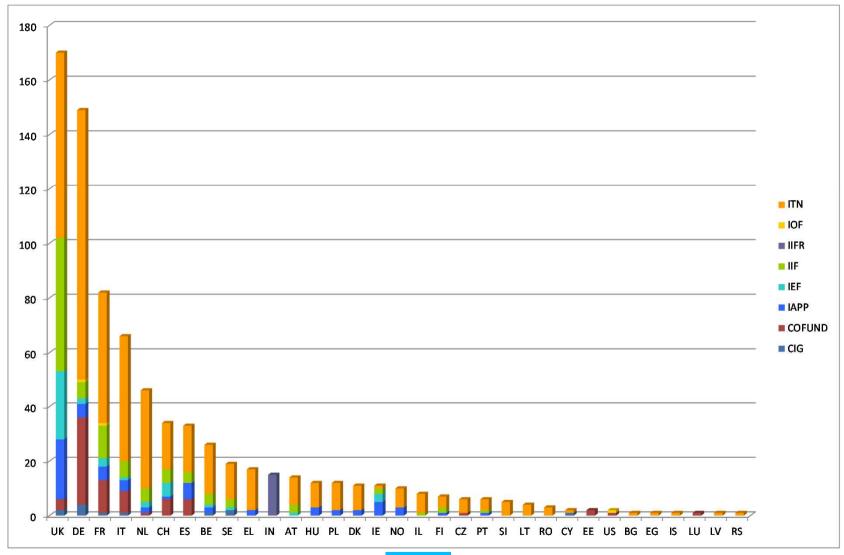
Marie Curie Actions, India Success Story

€4.6 million	 India's "Take" from FP7 Marie Curie Action (2007-2013)
1 st	 Rank in non-European participation
885	Indian Researchers funded
78	 Indian Institute partcipated
>50%	 Indian Fellows hosted by UK, Germany and France



HORIZON 2020

Indian fellows benefitting from a MC grant, grouped by the country of destination



Research and Innovation

What are the MSC Actions?



- Intellectual Capital
 - Enter the Researcher
 Profession
 - Stay in Europe
 - Attracting international researchers
- Knowledge Transfer
 - International & Inter-Sectoral Cooperation



"Bottom-Up"

- Chemistry
- Physics
- Mathematics
- Life Sciences
- Economic Sciences
- ICT and Engineering
- Social Sciences & Humanities
- Earth & Environmental Sciences
- Applications are assessed in these 8 Panels
- Call success is equalised across the Panels



As a researcher I want to...

- ... undertake a project in Europe
- ... spend my time at the leading labs in Europe
- ... be part of a well-established and prestigious programme
- ... benefit from good working conditions



Maybe I want to...

- ... work with businesses
- ... be part of a short-term exchange
- ... bring a researcher from Europe at no cost to my employer



HORIZON 2020

MSCA in Horizon 202



Innovative	ITN	Support for doctoral and early-stage training
Training Networks		European Training Networks, European Industrial Doctorates, Joint Doctorates
Individual Fellowships	IF	Support for experienced researchers undertaking international and inter-sector mobility
		European Fellowships and Global Fellowships Dedicated support for career restart and reintegration
Research and Innovation Staff Exchange	RISE	International and inter-sector cooperation through the exchange of staff
Co-funding of programmes	COFUND	Co-funding of regional, national and international programmes: - doctoral programmes - fellowship programmes



MSCA Innovative Training Networks (ITN)	Yes
MSCA Research and Innovation Staff	Yes, but only if IN researchers are staff members at
Exchange (RISE)	organisations located in EU/AC
Individual fellowships (IF):	Yes
European Fellowships	
Individual fellowships (IF): European Fellowships-Reintegration Panel	Yes, but only if IN researcher is a "long-term resident" of EU/AC: Long-term residence means a period of full-time research activity of at least 5 consecutive years in EU/AC
Individual fellowships (IF): Global Fellowships	Yes, but only if IN researcher is a "long-term resident" of EU/AC: Long-term residence means a period of full-time research activity of at least 5 consecutive years in EU/AC
Co-funding of regional, national and	Yes – depending on the eligibility criteria of the co-funded
international programmes (COFUND)	programme

Marie Curie Actions



Category 1: Monthly Living Allowance

- €58,500 gross salary per ER / year x country coefficient (4-10 years)
- €87,500 gross salary per ER / year x country coefficient (>10 years)

Category 2: Mobility Allowance

- €1,000 – €700 (family or not) per researcher month x country coefficient

Category 3: Contribution to Research, training and Transfer of Knowledge

- € 800 per researcher month
- Flat-rate cost category

Category 5: Overheads (and management)

- \in 700 per researcher month x country coefficient
- Flat-rate cost category

IIF Return Phase for expenses related to the integration of the researcher in the host institution

Flat rate of EUR 15 000 per researcher/year during the period of reintegration up to a maximum of 1 year - Not subject to country correction coefficient





HORIZON 2020

WORK PROGRAMME 2014 - 2015

3. Marie Skłodowska-Curie Actions

Important Notice on the First Horizon 2020 Work Programme

This Work Programme covers 2014 and 2015. Due to the launching phase of Horizon 2020, parts of the Work Programme that relate to 2015 (dates, budget) are provided at this stage on an indicative basis only. Such Work Programme parts will be decided during 2014.

(European Commission Decision C (2013)8631 of 10 December 2013)

http://ec.europa.eu/research/participants/data/ref/h2020/wp/2014_2015/m ain/h2020-wp1415-msca_en.pdf



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> Marie Curie Actions



Marie Curie Actions Website http://ec.europa.eu/mariecurieactions

Horizon 2020

http://ec.europa.eu/programmes/horizon2020

Participant Portal (applications) http://ec.europa.eu/research/participants/portal





Call for expert for H2020 programme

A bigger pool of international experts will serve several purposes:

- To broaden the pool of available expertise (all domains)
- To provide the opportunity for an 'outside' perspective to proposal evaluations/ monitoring of actions when necessary
- To provide additional expertise that may be required in the case of actions targeting cooperation with international partner countries

Advantages for the experts:

- International experts to get to know H2020 better, to appreciate the peerreview process and possibly to consider participation in the future.
- They have the opportunity for interaction with European experts in their domain
- Experts are **remunerated** for their work.



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These profiles and collaboration requests are currently active to build your network	Username:
 6934 Partner profiles 	
 160 Open FP7 Calls for Proposals 	Password:
 4685 Partnership requests 	Forgot your username or password? Not yet registered?
991 Proposing project	
3694 Offering collaboration	Log in
 276 Groups 	
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Erasmus+

The EU programme for Education, Training, Youth and Sport 2014-2020



	COME AND STUDY IN EUROPE!
WHAT IS ERASMUS MUNDUS?	The Erasmus Mundus programme aims to enhance quality in higher education through scholarships and academic co-operation between Europe and the rest of the world.
WHAT DOES ERASMUS MUNDUS OFFER STUDENTS?	Erasmus Mundus offers: * Scholarships to students and researchers of exceptional quality to follow an Erasmus Mundus Masters Course or Joint Doctorate at two or more European universities * Nearly 130 masters and doctoral courses to choose from * Scholarships to promote the exchange of students between European and non-European universities - study periods can vary between 3 months and 3 years * A scheme open to students throughout the world
HOW CAN STUDENTS FROM INDIA BENEFIT FROM ERASMUS MUNDUS?	Since the start of the programme in 2004, aprox. 2500 Indians have been selected for Erasmus Mundus scholarships. From 2009 to 2013, students from India can apply for Erasmus Mundus joint courses and scholarships either by applying directly to the course co-ordinator (Action 1) or through an exchange if their home university is a partner in one of the consortia selected under Action 2.



HORIZON 2020

HOW DO I APPLY?	First, go to the Erasmus Mundus website:
ACTION 1	http://eacea.ec.europa.eu/erasmus_mundus/funding/scholarships_students_academics_en.php
ERASMUS MUNDUS MASTERS COURSES AND JOINT DOCTORATES	Clink on the link to:
	Erasmus Mundus Masters Courses (EMMCs) or
	Erasmus Mundus Joint Doctorates (EMJDs)
	You can view all available courses or search for courses in a specific discipline.
	Once you have made your selection, go to the website of your chosen course. The course website will give you the details you require about tuition, fees, application procedures, etc.
	Please remember to send your application directly to the co-ordinator of your selected course.
HOW DO I APPLY?	Students of European and Indian partner universities that belong to consortia selected under Action 2 can apply directly within the consortium. These consortia may also accept applications from students of non-partner universities.
ERASMUS MUNDUS	
SCHOLARSHIPS FOR MOBILITY	For information on scholarships for Indian students, go to:
	http://eacea.ec.europa.eu/erasmus_mundus/results_compendia/selected_projects_en.php
	and click on the link for Action 2. There is a list of countries covered by each project.
HOW MUCH IS THE SCHOLARSHIP?	The size of the scholarship may vary according to the level of your studies, their duration (3 months to 3 years) and your nationality. For Indian students, the amounts are:
	24 000 Euro per year for Masters Courses (Action 1) 60 000 Euro to 130 000 Euro for three-year Joint Doctorates (Action 1)





European Commission





For more information

http://ec.europa.eu/erasmus-plus

