Dr. Samrat S. Kumar
Country Representative EURAXESS India

Horizon 2020

World

European Commission

Open to the

EU's Research and Innovation Framework Programme (2014-2020)

Excellent science

Industrial leadership

Societal challenges

Scientifically-excellent research, innovation, and technological development.

Collaborative and innovative research projects as well as grants and fellowships to individuals

European
Commission

- Participation from **across the world. 28 EU MS and 16 AC** to collaborate with.

- Many topics are **flagged** for cooperation with **partners outside** Europe such as India.

- **Indian** *researchers, universities, research organisations and enterprises* **team up** with European partners to **participate in projects** under Horizon 2020.

- Indian participant gain **great benefits** from access to **excellent talent**, **knowledge**, **data and infrastructures** and connection to **world-leading teams**, networks and value chains.

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RESEARCHERS IN MOTION

- • Participants from certain **Asian countries** are automatically **eligible for funding**: e.g. Afghanistan, Bangladesh, Nepal, Pakistan, Sri Lanka,

- • **India or Singapore**, for example, are **no longer** automatically eligible for funding. **Exceptional circumstances**: funding can be received; **co-funding Mechanism (CFM)** to fund the successful Indian participants in a number of **pre-identified calls of proposals.**

- • **Organisations** from **any sector and country**, can participate in H2020 projects. **Individual researchers** of **any nationality** are eligible to funding by H2020 mobility programmes (e.g. MSCA, ERC)

There are four main ways Indian nationals can participate in 'Horizon 2020':

1. *P**articipant/scientist** in **Marie Skłodowska-Curie Actions** programmes (MSCA)*

2. *Apply for a **European Research Council** (ERC) **grant** or become a team member*
3. ***Collaborative research**: participate as partner in Research and Innovation (RIA) and Innovation Actions (IA):*
4. ***Pre-identified joint calls** between EU-Partner Country*

All calls are announced on the Horizon 2020 Participant Portal recently renamed **Funding & Tender Opportunities.**

MSCA

Mobility
Requirement in all projects

Global reach
130 **nationalities**, 80 **countries**

European Commission
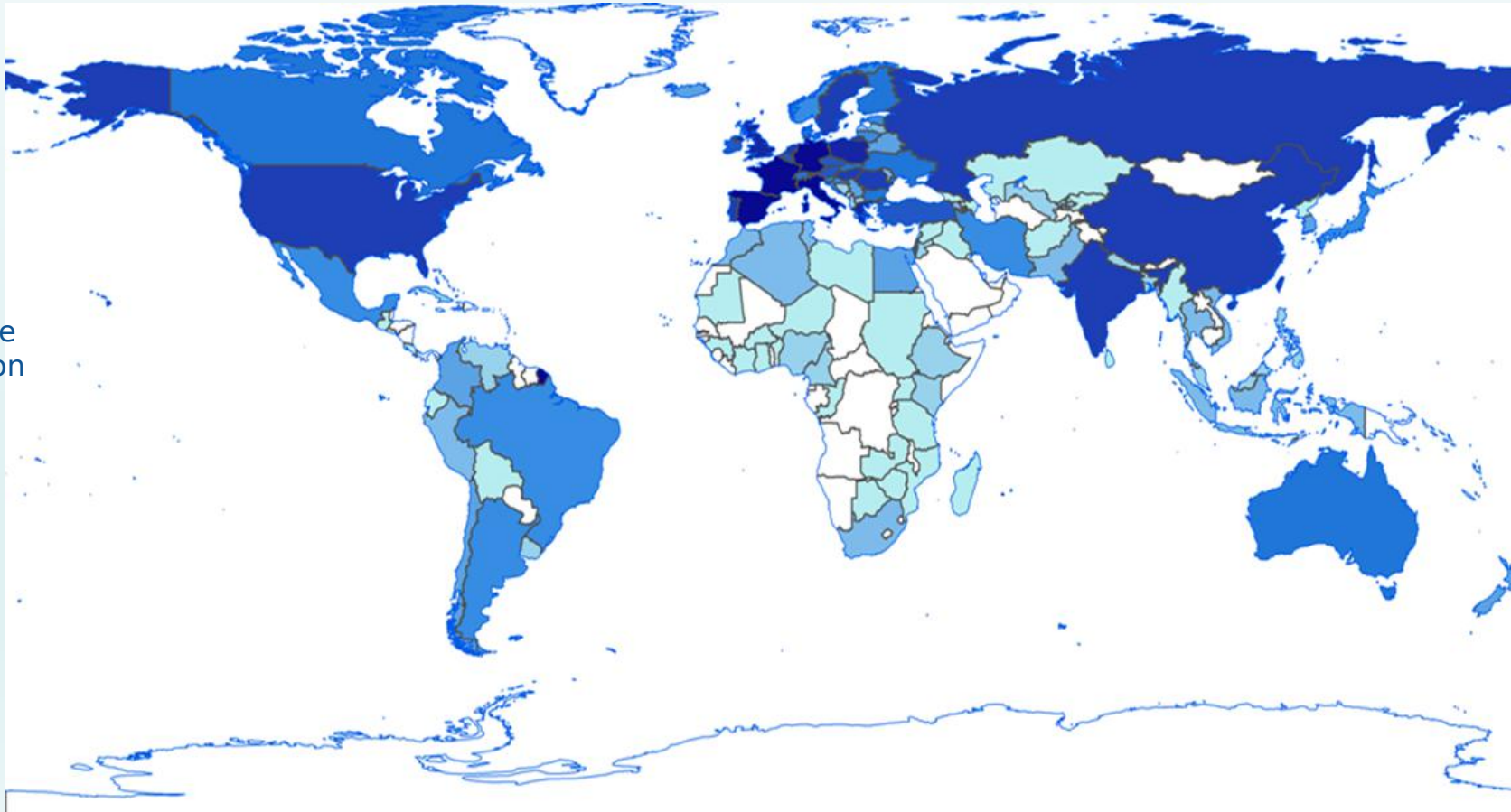
Since 2014: **25% fellows** nationals **outside** either the EU or the 16 AC of Horizon 2020.

6 1 0 0 organisations from more than **100 countries** have participated

Since 1994: **120 000** researchers**: 80 000** before 2014, and more than **40 000** in Horizon 2020 so far.

1 3 4 0 companies, including 786 SMEs, have received funding

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RESEARCHERS IN MOTION

Marie Curie
Actions

MSCA

IF
Individual Fellowships

RISE
Research and Innovation Staff Exchange

ITN
Innovative Training Networks

COFUND

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RESEARCHERS IN MOTION

Eligible researchers

Early-Stage Researchers (ESR)

No PhD
< 4 years of experience

ITN
RISE
COFUND

Experienced Researchers (ER)

PhD or
> 4 years of experience

IF
RISE
COFUND

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RESEARCHERS IN MOTION

MSAC-ITN

Doctoral training programmes for young researchers across the world:

- **European Training Network** (**ETN**):
Participants implement a joint research programme
- **European Industrial Doctorate** (**EID**):
Doctoral training with non-academic sector
- **European Joint Doctorates** (**EJD**):
Doctoral programmes to deliver joint degrees.

Aims:

- Train a new generation of creative, entrepreneurial and innovative early-stage researchers

- Raise excellence and structure research and doctoral training

- Provide enhanced career perspectives in both the academic and non-academic sectors through international, interdisciplinary and inter-sectoral mobility

How to apply?

- • Applying for an **MSCA-ITN position** is very much like applying for a **job.** *One of most generous PhD programs in Europe –Innovative Training Networks (ITN) with a higher salary than PhD students in many European countries (Salary, living, family and mobility allowance).*

- • **Projects** have already been set by the Beneficiaries and Partner Organisations involved in a given ITN *-all you have to do is apply to one that interests you.*

- • **ALL Fields:** STEM + SSH + Economies
- • **Deadline:** not fixed –Generally March/April
- • **Start:** September

Eligibility

- **For most positions:**
- •Proof that you are **qualified** to undertake a PhD. *You will usually need to have obtained a relevant Master's Degree or equivalent qualification;*
- •A **transcript** of your grades
- •A **CV** detailing prior experiences of projects, and any publications
- •A **personal statement** detailing why you are suitable for the project
- •**Contact details** for two or more individuals that can provide a **reference**/ letter of recommendation •Certificate of language proficiency (if required)
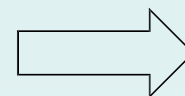- •**Eligibility** for the different ITNs varies. However, all available

European
Commission

European
Fellowships

For fellows coming to or moving within
MS/AC (12-24 months)

Global
Fellowships

For fellows from MS/AC
going to Third countries (12-24 months)
and returning to Europe (12 months)

Total = 24/36
months

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EUROPEAN FELLOWSHIPS | Asia => Europe

(Host in 28 Member States and 16 Associated Countries)

For **postdoctoral** research stays in a EU MS or AC.

Lasts from **1 to 2 years**.

Can help to **restart research** careers after a break such as parental leave.

Can also help **reintegrate** researchers coming back to Europe.

GLOBAL FELLOWSHIPS | Europe => Asia

For **postdoctoral** research stays (1 to 2 years) outside Europe for researchers based in a EU MS or AC.   Return to Europe (12m)

Asian universities, institutes and companies can host European nationals as postdoctoral or senior   researchers at their lab/dept. Asian organisation ="**Partner organisation**" in the proposal.

WIDENING FELLOWSHIP I Asia => Europe NEW

Proposals above the **threshold of 70%** but not retained for funding through the MSCA IF

Automatically **reassigned** to the Widening Fellowships call

Host institutions in countries listed in the Widening Fellowship

European Commission

WHO CAN APPLY?

- **All nationalities** can apply. **No age** restriction apply.
- **Mobility** is a must: you have to come to Europe, move within Europe or move outside Europe.
- **Experienced researchers** only: you will have your doctoral degree or at least four years' full-time research experience by the time of the call deadline.
- **All areas** of research – **social science and humanities included**!
- **Bottom-up**: **Your research**!

Most **TC MSCA IF fellows** from **India** (1250) **and China** in H2020. But also fellows from other Asian Countries: Vietnam, Thailand, Malaysia, Singapore

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BUDGET

European Commission

Institutional unit cost person/month	
Research, networking, training costs	800 €
Management and indirect costs	650 €

Researcher unit cost person/month	
Living allowance	4 880 €
Mobility allowance	600 €
Family allowance	500 €

INDIVIDUAL FELLOWSHIPS (2020-**MSCA-IF**)

HOW DOES IT WORK?

1st You => **Find host organisation** in any European country (list of 44 countries).

2nd **discuss** your **project proposal** with European Host/supervisor.

3rd write **joint proposal** with chosen host organisation in Europe => **submit** proposal with host .

4th if selected **grant** is given **to the host organisation located in a EU MS or AC** that recruits you (takes complete responsibility for the proper implementation of the action).

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Marie Curie
Actions

H2020-MSCA-IF CALLS 2019 – 2020

European
Commission

H2020-MSCA-IF call	2019	2020
Opening & Closing date	**11 April 2019- 11 Sept 2019**	**08 April 2020- 09 Sept 2020**
Budget	**237.62 million €**	**325 million €**

Indicative budget and deadlines

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Marie Skłodowska-Curie Actions

Website: http://ec.europa.eu/msca

Facebook: https://www.facebook.com/Marie.Curie.Actions

Horizon 2020
http://ec.europa.eu/research/horizon2020

European Research Council

- Integral part of Horizon 2020 (**pillar 1**)
- Long term grants (up to six years) for the best scientists/**disruptive research**
- Open to **any field of research** (also Social Sciences and Humanities)
- **Bottom up**, no priorities set
- Sole evaluation criteria: **Excellence**
- **+50 Indians** have received an ERC grants.
- More than **1000 Indians** have worked as ERC team members

ERC Funding schemes

European Commission

Starting Grants

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

Consolidator Grants

consolidators
(7-12 years after PhD) up to €2.75 M
for 5 years

Advanced Grants

significant research achievements in the last 10 years up to €3.5 M
for 5 years

Proof-of-Concept
bridging gap between research - earliest stage of marketable innovation
up to €150,000 for ERC grant holders

Synergy grants
A group of 2-4 PI. Any field of research. One PI could be outside EU MS/AC as well. Up to €10 million for 6 years

Marie Curie Actions

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ERC Mission

- **Excellent Research** across all fields, including SSH.

- Promote investigator-driven, or **'bottom-up'** frontier research; innovative proposals.

- Encourage the work of the established and **next generation** of independent top research leaders in Europe.

Marie Curie Actions

ERC grants

- Awarded through **open competition** to projects headed by starting and established researchers, irrespective of their origins.

- Sole criterion for selection is **scientific excellence.**

- **Research idea!** rather than research area.

- **New and unpredictable** scientific and technological discoveries - form the basis of new industries, markets, and broader social innovations of the future.

Marie Curie
Actions

European
Commission

- Indian researchers can apply to ERC grants - **PI**
- Recipients can use their funding to **recruit** other researchers and team members for their project. On average, each team has 4-5 members.
- Open positions for non-European scientists are available on **EURAXESS job portal**.
- International agreements with funding agencies and science ministries with some countries support young researchers to temporarily join ERC teams in Europe. Currently Implementing Arrangements are in place with India, signed in October 2017, with the Scientific Engineering Research Board **(SERB).**

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Marie Curie
Actions

EC- SERB Agreement

- In 2017, an Implementing Arrangement (IA) between India/ SERB and the European Commission (EC) was signed allowing SERB grantees **to join ERC teams in Europe**.

- The IA facilitates Indian researchers (Early Career Researchers, National Post-doctoral Fellows and Doctoral candidates) benefitting from a SERB grant to join for short periods of time (**up to one year**) an ERC team in one of the leading universities in Europe (28 Member States and 16 countries associated to Horizon 2020).

- Open to all areas in **STEM**.

European Commission

- Additional 'start-up' funding for scientists moving to Europe (EUR 500.000 for STG, EUR 750.000 for CoG, 1Mio EUR for AdVG)

- Grantee can keep affiliation with home institute outside Europe (min 50 %work time in Europe)

- Team members can be based outside Europe

- Grantee can move within Europe with the grant

How to participate in Horizon 2020?

= **OPEN COMPETITION + PEER REVIEW**

Find a relevant call (annual work programme) → Find partners → Submit a proposal → Be selected & Get involved!

EURAXESS-Researchers in Motion

- **Pan-European Initiative**: Backed by the European Union, Member States (MS) and Associated Countries (AC) – European Research Area (ERA)

- **Supporting Researcher Mobility** and **Career Development**

- **Enhancing Scientific Collaboration** between **Europe** and **the World**

- **Made** of 4 **Main Components**:

- www.euraxess.org
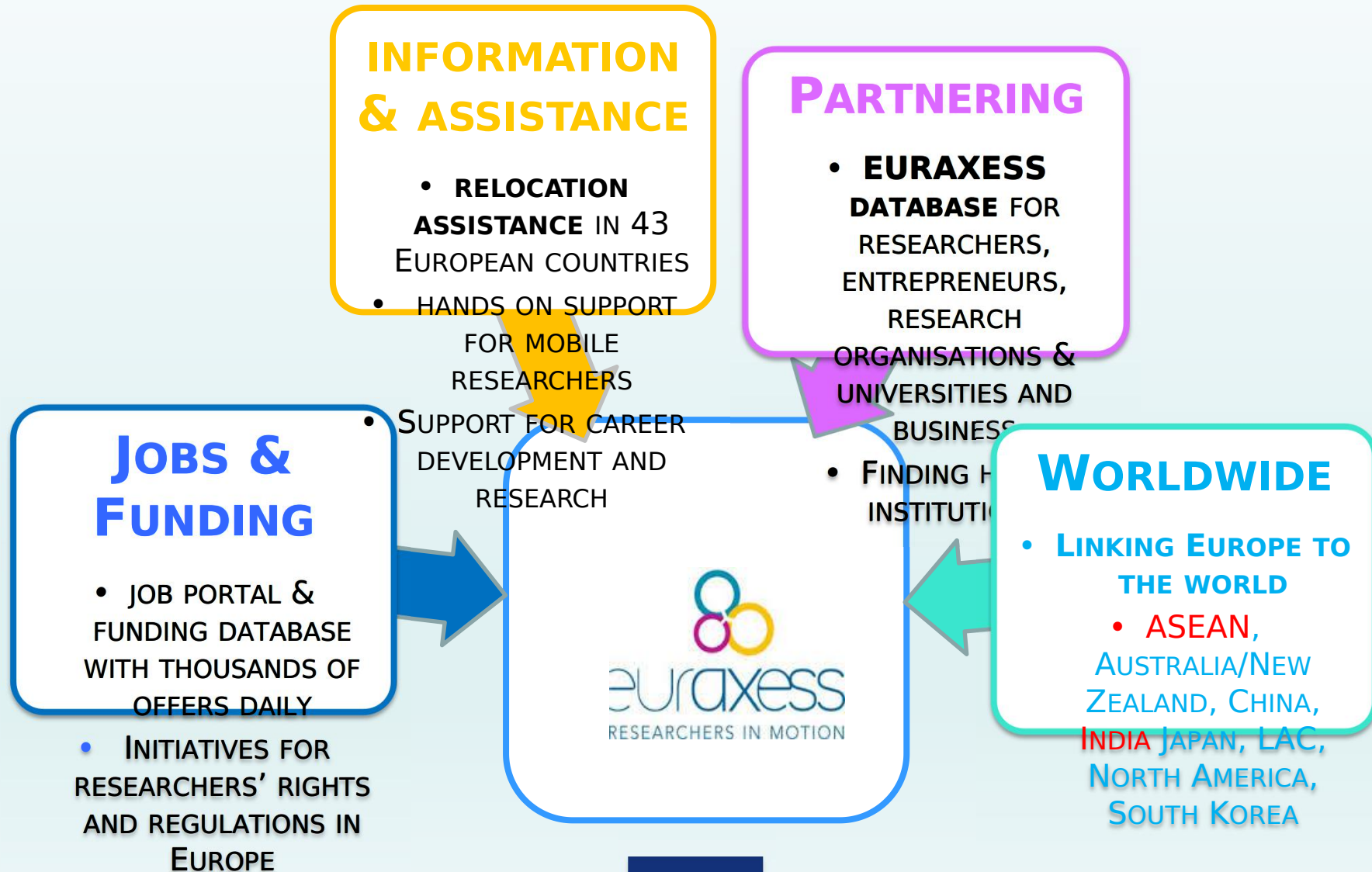
EURAXESS JOBS & FUNDING

- ı 60,000 **job vacancies published annually** (12,000 research job positions available right now !)

- ı 16,000 **registered research organisations and universities**

- ı 80,000 **registered users with EURAXESS**

- ı 500 **funding** opportunities available for Entrepreneurs

- **All areas** of **S**cience, **T**echnology, **I**nnovation; also **S**ocial Sciences & **H**umanities

NATIONAL PORTALS

- *At European level, the **EURAXESS main platform** is complemented by 40+ **national EURAXESS websites**, in the countries members of the initiative.*

- *The 40+ **countries** provide information on research jobs and funding opportunities, as well as on **personalised services** in each country (1600 service centres)*

- *Adverts published in the **JOBS & FUNDING section** of EURAXESS are also displayed on the complementary 40+ portals.*

EURAXESS Worldwide

EURAXESS Worldwide

- EURAXESS WORLDWIDE is the **international branch of** *EURAXESS – Researchers in Motion*

- EURAXESS WORLDWIDE seeks to promote research cooperation and to **facilitate the mobility of researchers between Europe and the world**

- EURAXESS WORLDWIDE is present in ASEAN, Australia and New Zealand, China, **India,** Japan, Korea, Latin America and Caribbean (LAC) and North America

EURAXESS Worldwide Network

Tailored information on **jobs**, **research calls** and **funding**.

Email alerts about **events and breaking news**.

Connecting with fellow **research professionals**.

Exclusive access to a global pool of highly qualified talent.

Support from our dedicated country representatives and support officers.

- *For more information visit:*

  - **https://euraxess.ec.europa.eu/worldwide**

EURAXESS India

- Network is **open to all researchers** at all stage of their careers.

- **Open to universities, research institutes and business**

- **Open to European + Indian initiatives**

- **Membership is free!**

- **Register on the site: india.euraxess.org or send us an e-mail : india@euraxess.net**

EURAXESS India Services

Community Register!

and **Website** (India)

Newsletters (quarterly), **Flashnotes**

EURAXESS Info Sessions and **EURAXESS Events**

EURAXESS India Events

EURAXESS *Events*

Info sessions on Researchers mobility, H2020 mobility programmes and EU-India collaboration

European Research Day, 18 **September in New Delhi**

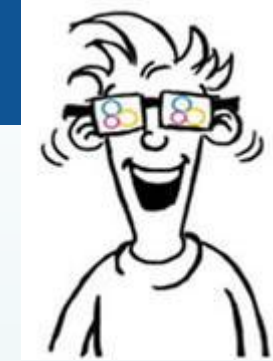**Science Communication Workshop**, 18 **October in Pune**

EURAXESS *Science Slam*

1st prize: Research **trip to Europe**!

Science communication **competition**

Live finals 30 **November in Trivandrum**

EU-Funded Calls   &   Fellowships
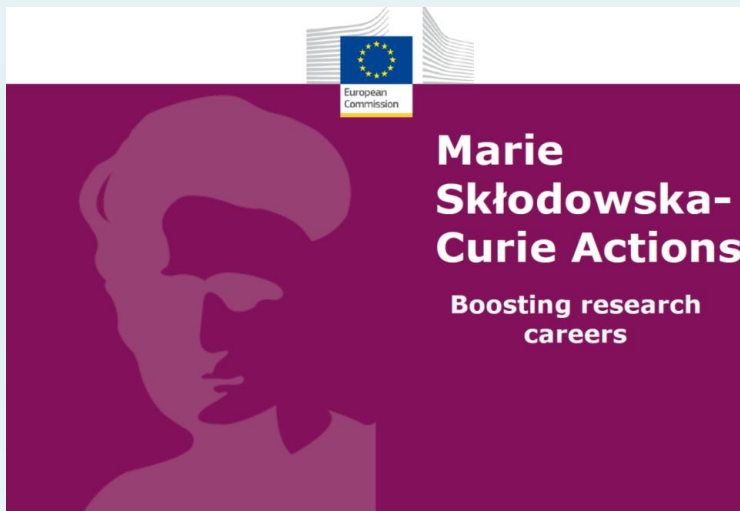
Marie Skłodowska-Curie Actions (MSCA): *Current Open Calls*

- **Austria – PhD positions on MSCA-ITN 'DoSSIER' in Computer Science (Domain Specific Systems for Information Extraction and Retrieval)** attractive salary including mobility allowance and family allowance; **Duration**: 36 months. **Deadline**: various

- **Sweden – COFUND–MSCA-EU program 'CanFaster' recruiting five post-doc fellows within Cancer Research and Entrepreneurship** **Duration**: 2 years. **Deadline**: 7 January 2020

- **France -13 PhD positions on the MSCA ITN Project 'FLOAWER' (offshore wind energy)** **Duration**: 36 months. **Deadline**: 31 December 2020

Marie Skłodowska-Curie Actions (MSCA)| *Current Open Calls II*

- **Ireland / 26 Post-doc fellowships in Computer Science/Software Engineering - ALECS** **Duration**: 24 **months. Deadline**: 13 **January** 2020

- **Spain / 35 PhD Fellowships at IdiPAZ Institute for Health Research in Madrid** **Duration**: 3 **years. Deadline**: 4 **February** 2020

- **Spain / 6 Postdoctoral Fellowships in Biomedicine** **Duration**: 36 **months. Deadline**: 10 **January** 2020

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Fellowships and Funding in EU Member States and Associated Countries

- **Switzerland / ETH Student Summer Research Fellowship 2020 for Undergraduate & Graduate students in computer science** - **monthly allowance of about CHF 1.750 to cover housing and living expenses. Travel and visa expenses will be covered as well. Duration: 2 months. Deadline: 15 December 2020**

- **Germany / International Climate Protection Fellowship for Young Climate Experts from Developing Countries**

- **Monthly fellowship of between €2,170 and €2,670; additional financial support for travel expenses etc. Duration: 1 year. Deadline: 1 March 2020**

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EU-India *Open Calls*

- **DBT-EU H2020 calls on Health, Agriculture, Bioeconomy, Clean Energy, Innovation**
- Researchers and innovators from universities, research institutions, enterprises and non-profit organizations **from India** can **team up** with European partners in the 30 **calls** for proposals in areas of: **health, agriculture, agri-food, fisheries, aquaculture, forestry, biofuels, bioeconomy, biotechnology, medical technology innovations etc.** Successful Indian participant(s) will be funded by DBT as per its national rule and regulations. DBT funding is applicable for preselected 30 calls only! **Deadline**: various

- **EU-DST joint call on Smart and Integrated Local Energy Systems**
- The EU Delegation to India and **DST** call for proposals. Proposals should develop and demonstrate **novel solutions**, integrating all energy vectors (electricity, heating, cooling, water, wastes, etc.), including possibilities offered by **batteries and electric vehicles**, interconnect them and optimize joint operation with increased share of **renewables and a higher energy efficiency**. Cooperation will take the form of a proposal demonstrating a local energy system (or several) in Europe and/or India. **Deadline**: 31 January 2020

REGISTER @ http://india.euraxess.org

✉ *india@euraxess.net*

in *linkedin.euraxess.org*

f *Euraxess Links India*

Thank you

Dr. Samrat S. Kumar,

Country Representative India