

Horizon 2020

the largest research funding program in the world

2nd PIURN Conference

Addressing the Challenges of Sustainability in the Pacific Islands

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Overview

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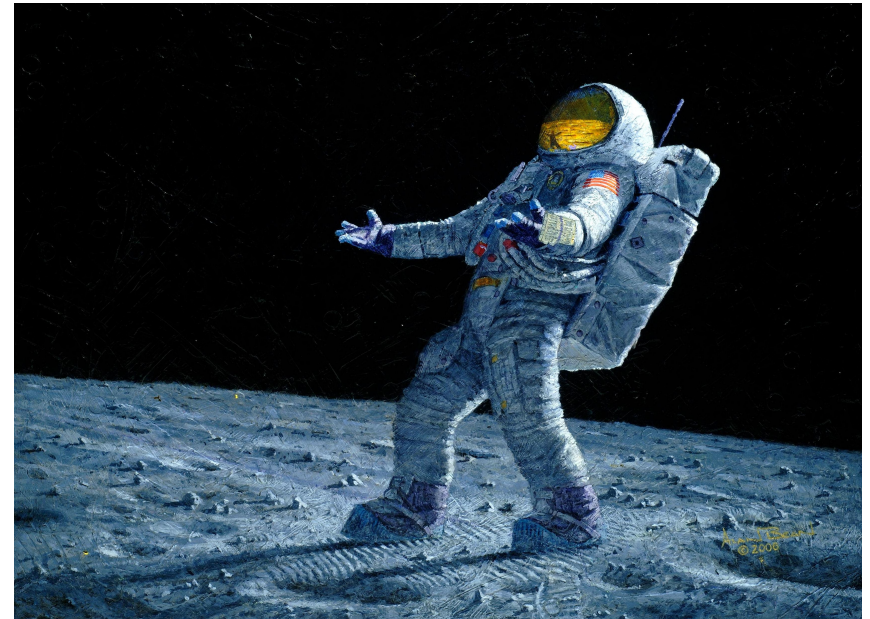


1. What is Horizon 2020?

- European program to fund ST&I
- Largest ST&I program in the world
- To stimulate economic growth and jobs
- Focussed on solving European problems (economic, social, environmental, etc.)
- Funds everything*

Who participates

- Universities
- Public agencies
- Large companies
- SMEs
- Governments
- Non-profit organisations
- Consultants



Summary facts

- **Budget:** €80 billion (~WS\$ 225 billion)
- **Duration:** 2014-2020
- **Participants:** global
- **Success rate:** 10-20%
- **Fields of research:** all
- **Funding:** 100% + 25%
- **Calls:** multiple calls, open on different dates
- **General information:**
<http://ec.europa.eu/programmes/horizon2020>



2. Past examples with the Pacific

- Pacific-Europe Network for Science, Technology and Innovation (PACE-Net Plus)
 - http://cordis.europa.eu/projects/rcn/109857_en.html
- Dengue research Framework for Resisting Epidemics in Europe (DENFREE)
 - http://cordis.europa.eu/project/rcn/102500_en.html
- Plasmodium Vivax infection in pregnancy (PREGVAX)
 - http://cordis.europa.eu/projects/rcn/86760_en.html
- European Consortium for Pacific Studies (ECOPAS)
 - http://cordis.europa.eu/project/rcn/106638_en.html

3. Quick rules

- Proposals should normally be focussed on *European* interests
- Projects must involve a minimum of 3 different organisations from 3 separate European countries (including OCTs)
- Exceptions to these rules are noted in the calls, especially calls focussed on *individual* researchers (e.g. fellowships)

Funding

- For pre-commercial activities, funding is generous
 - reimbursement of 100% of costs, plus an additional 25% for overheads.
- PICT & OCT organisations (universities, agencies, businesses, etc.) can get funding
- note: advanced economies like Australia, New Zealand, USA, China, Japan, etc., are not automatically eligible for funding

Proposals

- Proposal *must* address the call requirements. Most of the calls are very specific – they are *not* to fund your pet topic, they are to fund what Europe wants... like a tender
- Let your European colleagues do all the hard work (administration, etc.)

Evaluations

- Evaluation of proposals based on:
 - a. Excellence
 - b. Impact
 - c. Quality & efficiency of implementation
- Different weightings depending on call, e.g.:
 - innovation actions may focus on Impact
 - ERC grants only consider Excellence

4. How can Pacific researchers participate?

- PICTs known as a “third countries”, i.e. a non-European country, whilst OCTs are considered to be “Member States” of the EU
- PICT organisations can participate in most calls, and get funded
- But, you cannot do it by yourself – you **must** be part of a European consortium

- Contact your colleagues in Europe, and ask them if they will be submitting any applications... and ask if there is a role for you also
- Consider Horizon 2020 as a means to collaborate with regional colleagues (remember, New Caledonia and French Polynesia are *France*)
- You must demonstrate your level of excellence (track record) and clearly articulate what **value** you will bring to the project (e.g. unique data, world-leading research, local knowledge, regional networks, etc.)

- Encourage your researchers and experts to register to be Horizon 2020 ***evaluators***
<http://ec.europa.eu/research/participants/portal/desktop/en/experts>
 - Learn about Horizon 2020 from the inside
 - Learn the *unwritten* rules
 - Network with other people in your field
 - Get paid for your time, plus a flight to Brussels
 - Organise side meetings to build your networks

5. Excellent Science

There are several areas dedicated to supporting *the best* science:

- European Research Council (**ERC**)
- Future and Emerging Technologies (**FET**)
- Marie Skłodowska-Curie Actions (**MSCA**)
- European Research Infrastructures, including e-Infrastructures

European Research Council

- erc.europa.eu
- Investigator grants for the best researchers
- Highly prestigious, highly competitive
- Any research topic, any field
- Any researcher of any nationality can apply
- Must undertake the project at a European institution
- Portable grant



ERC

- Can include international partners
- Funding for up to 5 years
- **Starting Grant (StG)**, 2-7 years after PhD, €1.5 million + €0.5 million
- **Consolidator Grant (CoG)**, 7-12 years after PhD, €2 million + €0.75 million
- **Advanced Grant (AdG)**, €2.5 million + €1 million

Marie Skłodowska-Curie Actions

- These Actions are focused on providing training and mobility opportunities for researchers (from PhD to senior)
- Excellent for building lab-lab relationships and long-term collaborations
- Ideal for mobility with regional (French OCT) research partners

MSCA Individual Fellowships (IF)

- Fully funded fellowships to go to/from Europe
- Must have PhD *or* 4 years research experience
- Funding covers salary, travel, family allowance, overheads, costs, etc.
- 12-24 months

- Your proposal is about you and your science (excellence), but you need to also pay attention to “impact” and “implementation”
- For each fellowship, you will have a host institution
 - Receives the funds from Horizon 2020
 - Responsible for administration and your salary
 - Must be a European organisation, regardless of whether you are going to or from Europe
- Since this host institution has a vested interest in your success, you cannot submit a proposal independently from them
- Next call opens in April 2017
<http://ec.europa.eu/research/participants/portal/desktop/en/opportunities/h2020/topics/msca-if-2017.html>

MSCA Research and Innovation Staff Exchange (RISE)

- For multi-year lab-to-lab exchange programs
- Must have at least 2 European countries involved
- Provides resources for international secondments of all research staff (PhD, postdocs, experienced researchers, technical staff, administration staff)
- Next call will open in December
http://ec.europa.eu/research/mariecurieactions/about-msca/actions/rise/index_en.htm

6. Industrial Leadership

- Leadership in Enabling and Industrial Technologies (LEIT)
 - Information and Communication Technologies (ICT)
 - Nanotechnologies, Advanced Materials, Advanced Manufacturing and Processing, and Biotechnology
 - Space
- Innovation in SMEs

7. Societal Challenges

1. Health, Demographic Change and Wellbeing
 2. Food Security, Sustainable Agriculture and Forestry, Marine, Maritime and Inland Water Research and the Bioeconomy
 3. Secure, Clean and Efficient Energy
 4. Smart, Green and Integrated Transport
 5. Climate Action, Environment, Resource Efficiency and Raw Materials
 6. Europe in a changing world – Inclusive, innovative and reflective societies
 7. Secure societies – Protecting freedom and security of Europe and its citizens
- How to find call topics / funding opportunities? Go to the Participant Portal:
<http://ec.europa.eu/research/participants/portal>

8. Some upcoming call topics, e.g.

- Contentious inputs in organic farming, closes 14 February 2017
<http://ec.europa.eu/research/participants/portal/desktop/en/opportunities/h2020/topics/sfs-08-2017.html>
- Emerging diseases in plants and terrestrial livestock, closes 14 February 2017
<http://ec.europa.eu/research/participants/portal/desktop/en/opportunities/h2020/topics/sfs-10-2017.html>
- Validation of diagnostic tools for animal and plant health, closes 14 February 2017
<http://ec.europa.eu/research/participants/portal/desktop/en/opportunities/h2020/topics/sfs-13-2017.html>
- Smart fisheries technologies for an efficient, compliant and environmentally friendly fishing sector, closes 14 February 2017
<http://ec.europa.eu/research/participants/portal/desktop/en/opportunities/h2020/topics/sfs-22-2017.html>
- Functional biodiversity, effective interplay of crop pollinators and pest predators, closes 14 February 2017
<http://ec.europa.eu/research/participants/portal/desktop/en/opportunities/h2020/topics/sfs-28-2017.html>

- Closing loops at farm and regional levels to mitigate GHG emissions and environmental contamination, closes 14 February 2017
<http://ec.europa.eu/research/participants/portal/desktop/en/opportunities/h2020/topics/fs-30-2017.html>
- The Asia-Pacific as a strategic region for Europe, with focus on governance in and of the Pacific, closes 2 February 2017
<http://ec.europa.eu/research/participants/portal/desktop/en/opportunities/h2020/topics/eng-globally-06-2017.html>
- Resilience to extreme (natural and man-made) events, closes 26 January 2017
<http://ec.europa.eu/research/participants/portal/desktop/en/opportunities/h2020/topics/mg-7.1-2017.html>
- Coordination of citizens' observatories initiatives, closes 7 March 2017
<http://ec.europa.eu/research/participants/portal/desktop/en/opportunities/h2020/topics/sc5-19-2017.html>
- International network of raw materials training centres, closes 7 March 2017
<http://ec.europa.eu/research/participants/portal/desktop/en/opportunities/h2020/topics/sc5-16-2016-2017.html>
- Novel in-situ observation systems, closes 7 March 2017
<http://ec.europa.eu/research/participants/portal/desktop/en/opportunities/h2020/topics/sc5-18-2017.html>

More upcoming topics listed in these calls

- Sustainable food security: resilient and resource-efficient value chains
<http://ec.europa.eu/research/participants/portal/desktop/en/opportunities/h2020/calls/h2020-sfs-2016-2017.html>
- Blue growth: demonstrating an ocean of opportunities
<http://ec.europa.eu/research/participants/portal/desktop/en/opportunities/h2020/calls/h2020-bg-2016-2017.html>
- Rural renaissance: fostering innovation and business opportunities
<http://ec.europa.eu/research/participants/portal/desktop/en/opportunities/h2020/calls/h2020-rur-2016-2017.html>

Some final tips

- Contact your colleagues in Europe
- Join a COST Action
www.cost.eu
- Join the Australasian Research Management Society (ARMS)
researchmanagement.org.au

www.montroix.com

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