ASK&APPLY 2016

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ASK&APPLY programme 2016

1. Academy of Finland
2. September 2016 call
3. Open science
4. EU calls
5. Q & A

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1. ACADEMY OF FINLAND

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Academy of Finland in a nutshell

Key public funding agency for scientific research, major player in science policy in Finland

Strategic Research Council

Funding budget in 2015

€405m

Finnish Research Infrastructure Committee

140 employees

- **to support scientific research**
- **to develop framework conditions for research**

Four research councils

- Research Council for Biosciences and Environment
- Research Council for Culture and Society
- Research Council for Natural Sciences and Engineering
- Research Council for Health

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Our role as an expert in science policy

WE PROMOTE

- cutting-edge and ethically sustainable research
- research impact and science renewal
- utilisation of research results and expertise

WE SUPPORT

- opportunities for international research collaboration
- multidisciplinary and novel approaches to research

WE STRENGTHEN

- internationally attractive research environments
- Finnish and international research infrastructures

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What we do

We review funding applications, make funding decisions

We draft science policy lines and statements, engage in science policy debate

We conduct scientific and research foresighting and impact analysis

- State of Scientific Research in Finland
- impact assessment
- foresighting

We fund framework conditions for research and research environments (infrastructures and university research profiles)

We influence European and Nordic science policy

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Decision-making at the Academy

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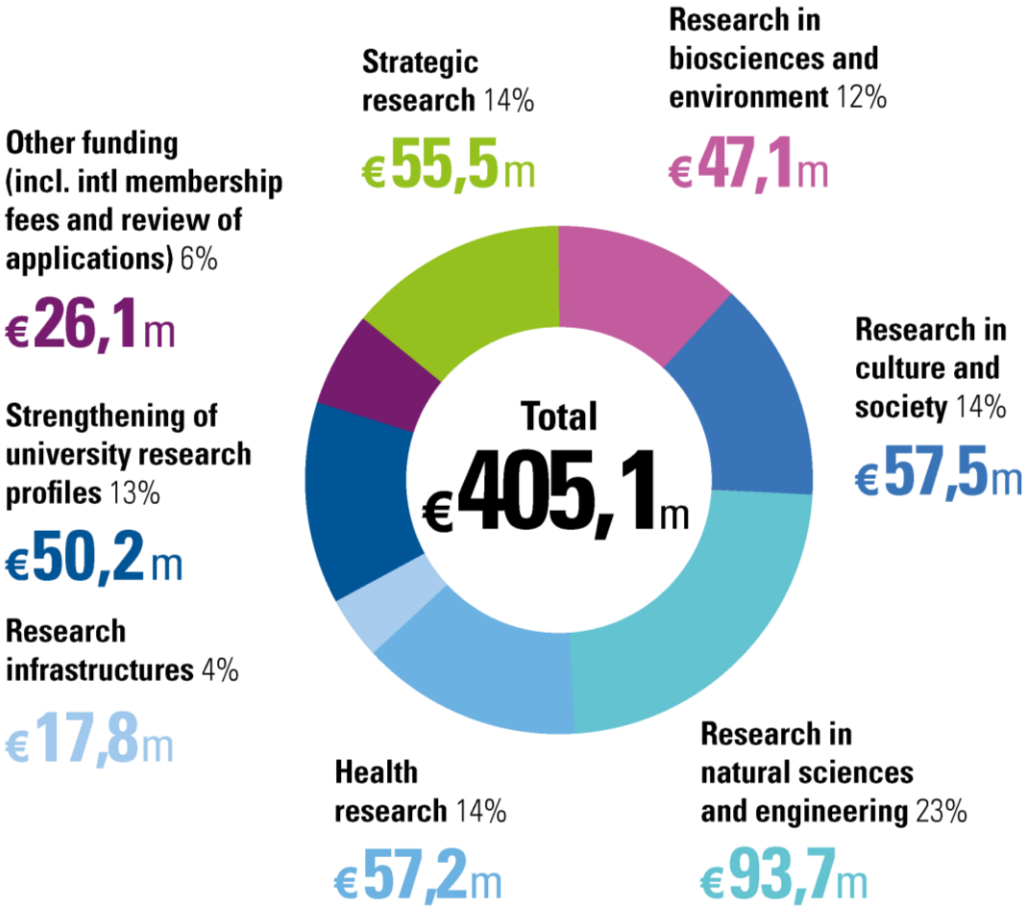
Academy funding in 2015, by domain



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Application processing – Who does what?

Presenting official (science adviser)

Handle and process the applications

International panels prepare scientific reviews (panel reports) on the applications.

Reviewers (panel)

Decision-maker

Makes the funding decisions based on both the panels' reports and science policy lines.

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Criteria used in reviewing applications

Scientific quality and innovativeness of the research plan

Feasibility of the research plan

Quality and strengthening of the research environment

Competence of the applicant/research team

International and national collaborative contacts and researcher mobility

1,000 reviewers each year

95% are foreign reviewers

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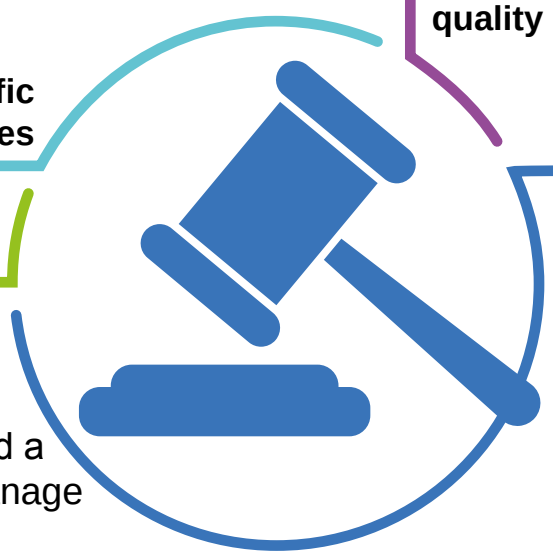
Criteria for funding decisions

Assessment of scientific quality

Instrument-specific objectives



Academy's objectives for research policy

- foster multidisciplinary and interdisciplinary research
- concentrate research into larger programmes
- contribute to the internationalisation of research
- advance the research careers of women and young people
- promote gender equality in research

Other factors

- applicants' ability to head a research project and manage research funds
- good scientific practice a must (incl. ethical aspects and IPR issues)
- open access

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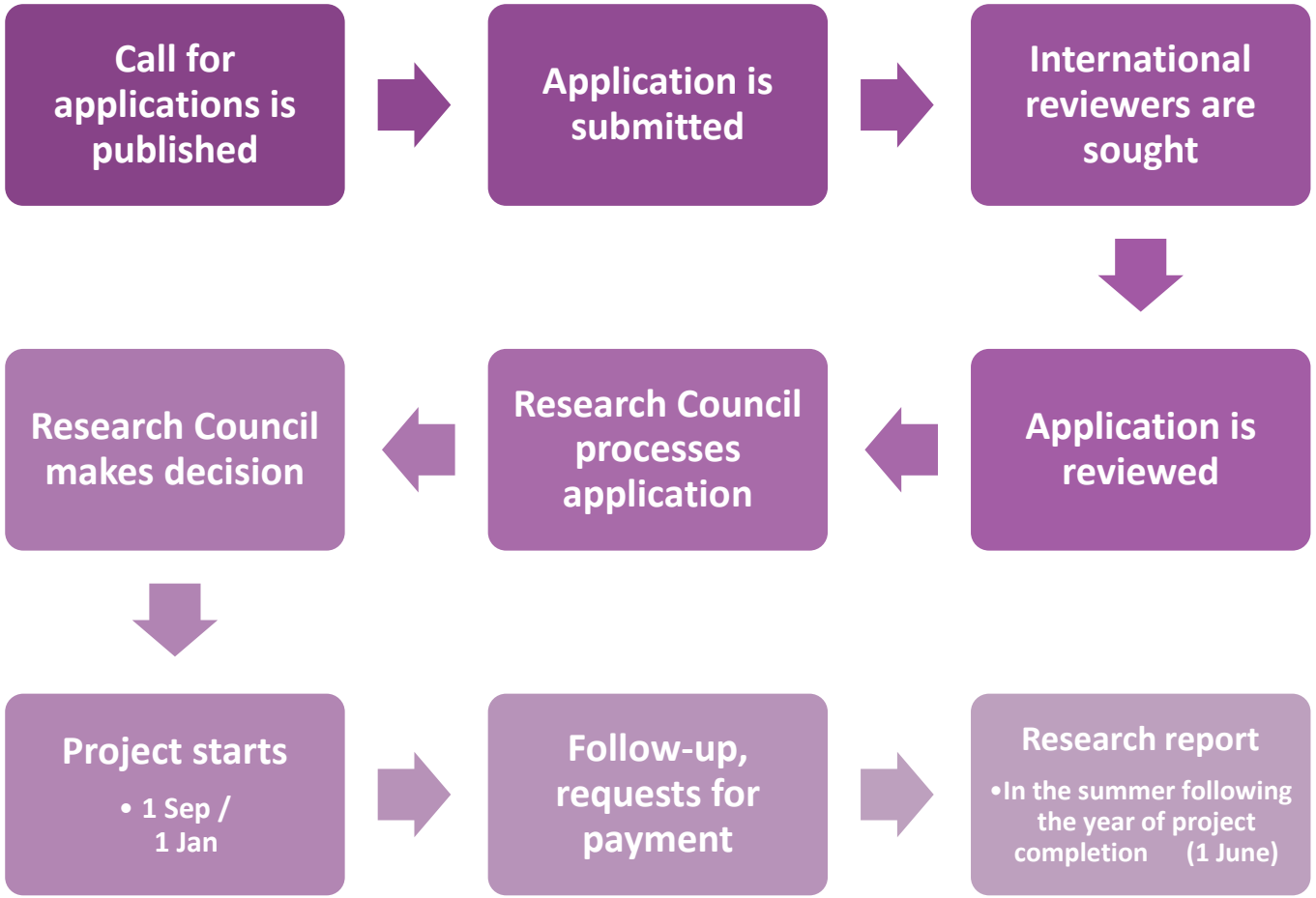
The life cycle of a project



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2. SEPTEMBER 2016 CALL

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Our funding opportunities

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Academy Project funding

- Our main funding opportunity
- Promotes the quality and diversity of research and its capacity for regeneration by providing funding for scientifically ambitious research
- Granted to leading-edge researchers and research teams for:
  - salaries
  - materials and equipment
  - travel
  - international collaboration
- Granted for four years

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Academy Project funding

Applicant: A researcher with the qualifications of a professor or an adjunct professor (docent)

Funding period: Normally four years

Funding starts: 1 September

For what? Primarily for teams of researchers who have completed their doctorate; for all project costs

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30 million euros earmarked for early-career researchers in government budget proposal

- The Academy will channel additional funding into Academy Project and Postdoctoral Researcher funding for early-career researchers in the September 2016 call on a one-off basis.
- The terms of the call text apply.
- In the call for **Academy Projects**, the additional funding will be allocated to projects led by early-career applicants who have the qualifications of a professor or docent and have made rapid progress in their careers. Applicants will briefly outline what qualifies them for this target group in section 8 of the research plan.
- In the call for **Postdoctoral Researcher**, the additional funding means that a higher number of Postdoctoral Researchers will receive funding. There are no changes to the application procedure for individual funding.

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Academy Project funding in September call 2015

- See details in the call text appendix 2 A

Research council	Applications		Funding (€)	
	Number of applications	**Success rate (%)**	**Granted, spring 2016**	**Average amount[1]**
Biosciences and Environment[2]	263	15	17 613 000	450 000
Culture and Society[3]	412	12	24 656 000	404 000
Natural Sciences and Engineering[4]	542	17	38 242 000	420 000
Health[5]	237	13	13 390 000	446 000

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Targeted Academy Project funding

- INTERNATIONAL JOINT PROJECTS WITHIN **THE ICT 2023 PROGRAMME**: WIFIUS, WIRELESS COMMUNICATIONS AND NETWORKING
- The joint projects to be funded leverage each nation's expertise and address the challenges via work in three areas:
  - IoT architectures and protocols
  - Cognitive IoT systems
  - Security and privacy in IoT

- Read the theme descriptions on the Academy's website at www.aka.fi/ict2023 > EN
- Deadline 17 October 2016 at 16.15

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Funding for research posts

ACADEMY PROFESSORS

- are top researchers who contribute to the progress of research within their field
- lead their own research team
- provide supervision to junior researchers and teaching associated with the research
- receive funding for no more than five years at a time
- The Academy is currently in the process of remodelling the funding scheme
-
- **The plan is to invite applications in the April 2017 call**

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Funding for research posts

ACADEMY RESEARCH FELLOWS

- have successfully been engaged in scientific research and publishing after earning their doctorate
- are qualified for advanced research tasks or other expert tasks
- carry out **independent scientific work**
- provide teaching and supervision in their field
- receive funding for **five years** (one term)
- **3-9 years since doctorate (**up to 13 years for specializing doctor)

- **MOBILITY requirement**

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Funding for research posts

ACADEMY RESEARCH FELLOWS

- **New in September 2016:**
- **The new MOBILITY requirement is met if**

1. researchers apply for funding to a research environment other than the one in which they worked while completing their doctoral thesis

2. Or if the application concerns the same research environment where the applicant worked while completing their doctoral degree, the applicant must give an account of at least six months of research experience from another research environment since PhD completion.

See Appendix 7 in call text

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Research posts as Academy Research Fellow

Goal: To support the best experienced researchers in developing their skills of academic leadership and establishing themselves as independent researchers

Applicant: 3−9 years since doctorate (between 27 Sep 2007 and 30 Sep 2013)
+ 4 years since medical specialist training

Funding period: Five years; only once

For what? Researcher's own salary, costs of project

The funding (= personal salary) is applied for in September.
Those selected can then apply for funding for research costs.

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Academy research fellow in September call 2015

- See details in the call text appendix 2 B

Research council	Academy Research Fellow applications	
	Applications for salary funding	**Success rate, spring 2016 (%)**
Biosciences and Environment	117	10
Culture and Society	176	11
Natural Sciences and Engineering	236	9
Health	89	12

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Funding for research posts

POSTDOCTORAL RESEARCHERS

- Have recently earned their doctorate, are gaining qualifications as professional researchers
- Carry out their own research plan, supervise thesis writers
- Eligibility: primarily no more than four years since doctorate (+ 4 years for specializing doctor)
- Receive funding for salary and research costs
- Are granted funding for three years

- **MOBILITY**

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Funding for research posts

POSTDOCTORAL RESEARCHER

- **New in September 2016:**
- **The new MOBILITY requirement is met if**

1. researchers apply for funding to a research environment other than the one in which they worked while completing their doctoral thesis

2. Or if the application concerns the same research environment where the applicant worked while completing their doctoral degree, the applicant must give an account of at least six months of research experience from another research environment since PhD completion.

See Appendix 7 in call text

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Research posts as Postdoctoral researcher

Goal: To advance the professional competence of researchers who have recently earned their doctorate

Applicant: 0−4 years since doctorate (between 27 Sep 2012 and 30 Sep 2016)

+ 4 years since medical specialist training

Funding period: Three years; only once

For what?

- salary (full-time work for 36 months)
- personal research costs (excl. other people's salaries)
- international or national mobility

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Postdoctoral researcher in September call 2015

- See details in the call text appendix 2 D

Research council	Applications		Funding (€)	
	Number of applications	**Success rate (%)**	**Granted, spring 2016**	**Average amount[1]**
Biosciences and Environment[2]	173	9	4 361 000	273 000
Culture and Society	353	9	7 810 000	260 000
Natural Sciences and Engineering[3]	397	11	10 566 000	252 000
Health	162	9	3 841 000	274 000

Clinical researcher funding

- **Research Council for Health** – strategic funding

- Research Council for Health funds **part-time research** by **physicians and other researchers engaged in clinical practice**

- The aim is to promote clinical research careers in cooperation with, for example, university hospitals, and to encourage medical doctors and other researchers working in clinical practice to engage in research alongside clinical practice

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Clinical researcher funding: the applicant

- The applicant is a medical doctor with a doctoral degree working in clinical practice **or** some other healthcare professional with a doctoral degree engaged in clinical practice.
- Funding period 4 years, no limits in funding periods
- Part time funding: 20–50 % salary + some laboratory costs
- Success rate has been around 20 %
- More information sanna.marjavaara@aka.fi

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Mobility grants

Bilateral agreements between funding agencies to promote researcher mobility:

- China/Taiwan
- Germany
- India
- Japan
- Russia

Applicant: A researcher with a higher university degree (primarily doctorate)

For what? A grant to cover travel and living costs

Grant duration: 7–360 days

Invitation money: Funding to invite a foreign researcher to Finland or organise a seminar in Finland (Japan, China/Taiwan)

The mobility funding is either a personal grant or a research grant. Personal grants are paid directly to the researchers, research grants via the sites of research.

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Funding for Research Environments

- **SRC matching funds for Horizon 2020:**
- The Strategic Research Council (SRC) at the Academy of Finland grants national **matching funds** to projects that have received funding under the Societal Challenges priority of Horizon 2020.
- Projects eligible to receive SRC matching funds must have received funding in 2015 or thereafter. The aim of SRC matching funds is to encourage research organisations to participate in preparing projects for upcoming EU funding calls.
- **Applicant:** SRC matching funds can be applied for by research organisations, such as research services or financial administration units.
- *Please note the application schedule.* Sites of research can submit applications as soon as they have received the final, signed funding decision from the EU Commission. The application deadline is open-ended.

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Applying

- Carefully read the September call text and follow the instructions!

- Start well in time
- Ask for help if needed well in time
  - your colleaque
  - science adviser
  - your university

- The deadline is **Wednesday 28 September at 16.15**

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Appendices: Research plan

- Read the quidelines and follow them
- No more than 12 pages
- Guidelines for application appendices are updated before the call opens!

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Other appendices

- CV no more that 4 pages
- List of publications
- Data management plan
- Degree certificate (Academy research fellows and postdoctoral researchers)

- Other if needed (see the call text)

- Only PDF-format accepted

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Research impact: What is New in the September 2016 Call?

- As before, the research plan should include descriptions of both the research project's scientific impact and its expected impact beyond academia.
- Both have been included in the "*Objectives and expected results*" section of the Research Plan.
- In the September 2016 Call, impacts will constitute a separate item in the outline of the Research Plan.

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Why is it important to recognise the broader impacts of research?

- Promoting scientific research and its utilisation is one of the tasks of the Academy of Finland.
- Research quality, impact within and beyond academia, and the renewal of science support each other.
- Impact beyond academia has many different forms, with different timespans etc. - the interpretations of the term vary a lot.

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How is potential impact treated in the evaluation of proposals and in funding decisions?

- The impact section of the Research Plan encourages researchers to elaborate the interconnections of research beyond their immediate scientific community.
- The broader impact of research is not given a separate score during in the evaluation process (peer review, panel of experts).
- In its deliberation, the Scientific Council or other body making the funding decision may take the broader impact of research into consideration.

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3. OPEN SCIENCE

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Openness Is a Key Principle in All Science and Research

- Open science forms part of the principles of good scientific practice.
- Academy of Finland is keen to stress that openness, in practice, improves the overall quality and impact of research.

- The goal is to make research publications, data and material, metadata and methods widely available for further use.
- Academy is committed to open science promotion in providing funding for research projects.

1) Academy-funded projects commit to open access publishing as well as to make their research data and methods freely available, if possible.
2) Planning of open science actions is described in the application.

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Open Science: Considerations

- The Academy of Finland is keen to highlight the importance of quality in scientific publishing.
- If researchers follow the principles of open science, they must do so with due consideration of research ethics and the juridical environment.
  - Data may for justified reasons come in varying degrees of openness, ranging from fully open to strictly confidential.
- Sites of research and research infrastructures are needed to support delivering both open access and open research data.

If the principles cannot be followed, the applicant is required to provide a brief account of the situation.

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Open Access for Publications

- All Academy-funded researchers are required to see that all publications produced with funding from the Academy of Finland are made freely available, where possible.
  - This requirement particularly concerns peer-reviewed scientific articles.
  - Academy funding is available for research costs arising from publishing of research results (especially gold OA APCs).
- Researchers can publish their articles following either green or gold open access.
- The Academy does not recommend that researchers publish their work in hybrid open access journals.

Publication plan is described in the Research Plan (item 3: Objectives and Expected Results).

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Open Research Data and Methods

- Academy requires that principal investigators of Academy-funded research projects see to that the projects data are stored and made available through major national or international archives or storage services that are important in the fields concerned.
    - Data may for justified reasons, however, come in varying degrees of openness, ranging from fully open to strictly confidential.

- The Academy of Finland requires that applications to be submitted to the Academy include a data management plan for the research project or research infrastructure concerned.

1) Research plan (item 4: Research Methods and Material, Research Environment)
2) Separate appendix: a data management plan

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Separate appendix: a data management plan

- Applications to be submitted to the Academy of Finland must include as a separate appendix a data management plan, describing how the project will manage its research data and how the data will be made available upon project completion.
  - No longer than 1–2 pages.
  - If the project will not produce any research data to be stored, please provide a brief account of the situation in the appendix.
  - Data may for justified reasons come in varying degrees of openness, ranging from fully open to strictly confidential. The applicant is required to provide a brief account of the situation.

This plan describes the technical issues, choices, possibilities and limitations for delivering open research data.

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DMPTuuli – How to Make a Data Management Plan

- The data management planning tool DMPTuuli helps researchers to write the data management plan, manage and share their data as well as meet funding agency requirements.
  - **Log in:** https://www.dmptuuli.fi/
  - **My Plan:** Pick Academy of Finland's DMP form.
  - **Edit Plan Details:** write the applicant's (the PI's) name, research topic and application number. Also remember to date the plan.
  - **Initial DMP:** Answer to the given questions. See "Guidance" for help.
  - **Share:** If you want share the plan with collaborators and other support, invite them to read and edit the plan.
  - **Export:** Save a pdf-file of your answers.
  - **Attach the file to the application at the Academy's online service.**
- The applicant may choose not to use DMPTuuli, but should draft the data management plan according to the given structure.
- DMPTuuli is provided by the Tuuli project of the Finnish Ministry of Education, Science and Culture. Similar service has been used in UK research funding calls.

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Open Science and Evaluation

- In September 2016 call, the review panels are asked to give their view on the planned open science activities:

1.4 Ethical issues and open access to research results
Guiding question: Are there any ethical issues involved and, if so, how are they taken into account? What is the intended level of open access to research results? Is the data management plan sufficiently detailed?

  - Applicant needs to submit a justified statement on the possibilities and limitations of open science.
  - Claiming full open access or open research data as such is not an automatic option for best possible review statement
  - No grading

- The review forms will be available at: http://www.aka.fi/fi/arviointi-ja-paatokset/hakemusarviointi/ohjeet-ja-lomakkeet/

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More information

- Academy of Finland: September 2016 call text: http://www.aka.fi/en/funding/apply-now/call-texts/
  - See especially:
    - Guidelines on Required Appendices: requirement of open science practices
    - Appendix 4: Open Science
    - Appendix 5: Guidelines for Drafting a Data Management Plan
- Research Plan Guidelines: http://www.aka.fi/en/funding/how-to-apply/appendices-required/research-plan-guidelines/
- Academy & Open Science: http://www.aka.fi/en/funding/responsible-research/open-science/
- Contact the science advisers named as contact persons for the particular call you are appying in (see the call text).

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4. EU CALLS

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H2020: Funding Opportunities

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What is H2020?

- Horizon 2020 is the European Union's funding programme for research and innovation. The aim of H2020 is to create new growth and jobs across Europe
  - by strengthening scientific knowledge and knowhow within the EU
  - by supporting the development and introduction of new technologies and innovations
  - by tackling societal challenges facing Europe

- The Horizon 2020 budget amounts to some EUR 80 billion covering the years 2014–2020.

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H2020 Funding Opportunities

I Excellent Science

1. European Research Council (ERC): frontier research
2. Future and Emerging Technologies (FET).
   a) Open
   b) Proactive
   c) Flagships
3. Marie Skłodowska-Curie (MSCA) – actions:
   training, career development and mobility for researchers
4. Research Infrastructures

II Industrial Leadership

1. Leadership in Enabling and Industrial Technologies
   - 1.1. ICT
   - 1.2. nanotechnology
   - 1.3. materials
   - 1.4. biotechnology
   - 1.5. manufacturing and processing
   - 1.6. space
2. Risk finance:
   loans & equity funding
3. Innovation in SMEs

III Societal Challenges

1. Health, demographic change and wellbeing
2. Food security, sustainable agriculture and forestry, marine, maritime and inland water research and bioeconomy
3. Secure, clean and efficient energy
4. Smart, green and integrtaed transport
5. Climate action, 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

Also: Science with and for society, Spreading excellence and widening participation

IV Joint Research Center JRC, excl. nuclear

Nuclear research: EURATOM

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European Research Council ERC

The ERC supports excellence in frontier research through a bottom-up, individual-based, pan-European competition

Budget: € 13 billion (2014-2020) - 1.9 billion €/year

Starting Grants

starters
(2-7 years after PhD) up
to € 1.5 Mio
for 5 years

Consolidator Grants

consolidators
(7-12 years after PhD)
up to € 2 Mio
for 5 years

Advanced Grants

track-record of
significant research
achievements in the
last 10 years
up to € 2.5 Mio
for 5 years

European Research Council ERC

	Starting Grant	Consolidator Grant	Advanced Grant
Call identifier	ERC-2017-StG	ERC-2017-CoG	ERC-2017-AdG
Call Opens	19 July 2016	20 October 2016	16 May 2017
Deadline	18 October 2016	9 February 2017	31 August 2017
Budget million EUR (estimated grants)	605 (415)	575 (320)	570 (245)

See the ERC Work Programme 2017

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ERC National Contact Points

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Marie Sklodowska-Curie Actions

Innovative Training Networks, ITN	• Funding for doctoral training networks • Applicants academic or non-academic sector actors based in different countries • Open international recruitment of doctoral students to the network
Cofunding of regional, national and international programmes COFUND	• Co-funding of (national) doctoral and fellowship programmes (max 50 %) • Applicant is a single organisation or a network, which already has existing doctoral or fellowship programmes • Open recruitment of doctoral students, international peer review of fellowships
Research and Innovation Staff Exchange RISE	• Short-term exchange of existing staff members (max 12 months/person) • Salaries are not covered, only travel and subsistence costs • Inter-sectoral and international (third countries) co-operation
Individual Fellowships IF	• Applicant is an individual researcher together with host organisation • From Europe to any country, from any country to Europe • For experienced researchers: PhD degree or at least four years of research experience after MSc

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MSCA calls 2017

ITN	COFUND	RISE	IF
• Next call opens **15.9.2016**	• Next call opens **5.4.2017**	• Next call opens **1.12.2016**	• Next call opens **14.4.2017**
• Call deadline **10.1.2017**	• Call deadline **28.9.2017**	• Call deadline **5.4.2017**	• Call deadline **14.9.2017**

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For more information please contact your MSCA NCP

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How to get started? (1/2)

Check the following websites:

Basic information on what H2020 offers, rules of participation:

http://www.tekes.eu/horisontti-2020/ (in Finnish)

http://www.tekes.eu/en/horizon-2020/ (in English)

European Commission's website for H2020, including work programmes for different parts of H2020:

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

All information on calls and how to prepare and submit an application > **Participant portal**

http://ec.europa.eu/research/participants/portal/desktop/en/home.html

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How to get started (2/2)

- Contact the research and innovation services of your own organization and/or the National Contact Point (NCP) of the funding instrument or thematic area you are interested in.
- NCPs are experts in their fields and therefore able to provide detailed and content-oriented guidance on all aspects of the Horizon 2020 programme. NCPs work at the Academy of Finland and Tekes.
- NCP work is coordinated by Tekes. NCPs collaborate closely with the research and innovation services of Finnish universities and sectoral research institutes.
- Contact details: http://www.tekes.eu/Yhteystiedot/
- NCPs at the Academy of Finland: http://www.aka.fi/fi/tiedepoliittinen-toiminta/kansainvalinen-toiminta/eurooppa/horisontti-2020/akaktemian-horisontti-2020--ohjelman-kansalliset-yhteyshenkilot/

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Good luck and hard work!

- Start well in time and follow the instructions
- Keep the evaluation criteria in your mind
- Submit well in time

- **September call 2016: what's new?**

1. **Mobility requirements (Academy research fellow and postdoctoral researcher)**
2. **The Academy requires adherence to open science practices**
3. **Clinical researcher funding form is not limited to medical doctors**

4. **Check the updates!**

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Thank You

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5. Q & A

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