ASK&APPLY programme 2016

1. Academy of Finland
2. September 2016 call
3. Open science
4. EU calls
5. Q & A
1. ACADEMY OF FINLAND
Academy of Finland in a Nutshell

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

Funding budget in 2015

€405m

• 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

Strategic Research Council

Finnish Research Infrastructure Committee
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
What we do

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

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

- We review funding applications, make funding decisions

- We conduct scientific and research foresighting and impact analysis
  - State of Scientific Research in Finland
  - Impact assessment
  - Foresighting

- We influence European and Nordic science policy
## Decision-making at the Academy

### FINNISH GOVERNMENT
Ministry of Education, Science and Culture

### BOARD OF THE ACADEMY OF FINLAND

<table>
<thead>
<tr>
<th>Finnish Research Infrastructure Committee</th>
<th>RESEARCH COUNCILS</th>
<th>Strategic Research Council</th>
</tr>
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<tbody>
<tr>
<td></td>
<td>Chair, 10 members</td>
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</table>

- Research Council for Biosciences and Environment
- Research Council for Culture and Society
- Research Council for Natural Sciences and Engineering
- Research Council for Health
Academy Funding in 2015, by Domain

- Strategic research: €55.5m (14%)
- Research in biosciences and environment: €47.1m (12%)
- Research in culture and society: €57.5m (14%)
- Research in natural sciences and engineering: €93.7m (23%)
- Health research: €57.2m (14%)
- Strengthening of university research profiles: €50.2m (13%)
- Other funding (incl. intl membership fees and review of applications): €26.1m (6%)
- Research infrastructures: €17.8m (4%)

Total: €405.1m
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.
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
Criteria for Funding Decisions

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

Assessment of scientific quality

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

Instrument-specific objectives
The Life Cycle of a Project

1. Call for applications is published
2. Application is submitted
3. International reviewers are sought
4. Application is reviewed
5. Research Council processes application
6. Research Council makes decision
7. Project starts
   - 1 Sep / 1 Jan
8. Follow-up, requests for payment
9. Research report
   - In the summer following the year of project completion (1 June)
2. SEPTEMBER 2016
CALL
September call 2016: what’s new?

- The applicant should describe impact beyond academia
- The Academy requires commitment to open science practices
- Mobility requirement for posts as Postdoctoral Researcher and Academy Research Fellow
- Time since PhD completion: new rules
- Clinical researcher funding form is not limited to medical doctors
- Call for Academy Professors postponed until April 2017
Our funding opportunities

Academy Projects
Targeted Academy Projects

For research

Academy Programs

Strategic Research Programmes

For researchers

Postdoctoral Researchers

Academy Professors

Research environments

Research infrastructures

Centres of Excellence

University research profiles
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
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
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.

1) Academy Projects

• 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.

2) Postdoctoral Researcher

• a higher number of Postdoctoral Researchers will receive funding.

• There are no changes to the application procedure for individual funding.
Academy Project funding in September call 2015

- See details in the call text appendix 2 A

<table>
<thead>
<tr>
<th>Research council</th>
<th>Applications</th>
<th>Funding (€)</th>
</tr>
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<tbody>
<tr>
<td></td>
<td>Number of applications</td>
<td>Success rate (%)</td>
</tr>
<tr>
<td>Biosciences and Environment²</td>
<td>263</td>
<td>15</td>
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<tr>
<td>Culture and Society³</td>
<td>412</td>
<td>12</td>
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<tr>
<td>Natural Sciences and Engineering⁴</td>
<td>542</td>
<td>17</td>
</tr>
<tr>
<td>Health⁵</td>
<td>237</td>
<td>13</td>
</tr>
</tbody>
</table>
Targeted Academy Project funding

International Joint Projects within the **ICT 2023 Programme**: WIFIUS, Wireless Communication 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](http://www.aka.fi/ict2023) > EN
- Deadline **17 October 2016** at 16.15
- Contact: Senior Science Adviser **Juha Latikka** (juha.latikka@aka.fi)
The Academy is currently in the process of remodeling the funding scheme.

- The plan is to invite applications in the April 2017 call.
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
Funding for research posts

ACADEMY RESEARCH FELLOWS

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

New in September 2016: MOBILITY REQUIREMENT

Funding period: Five years, only once
For what? Researcher’s own salary, project costs

The funding (= personal salary) is applied for in September. Those selected can then apply for funding for research costs.
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
## Academy research fellow in September call 2015

- See details in the call text appendix 2 B

<table>
<thead>
<tr>
<th>Research council</th>
<th>Academy Research Fellow applications</th>
<th>Success rate, spring 2016 (%)</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Applications for salary funding</strong></td>
<td></td>
<td></td>
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<tr>
<td>Biosciences and Environment</td>
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<td>Natural Sciences and Engineering</td>
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</tr>
<tr>
<td>Health</td>
<td>89</td>
<td>12</td>
</tr>
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</table>
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
Funding for research posts

POSTDOCTORAL RESEARCHERS

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  
international or national mobility
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
Postdoctoral researcher in September call 2015

• See details in the call text appendix 2 D

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</tr>
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<td>Health</td>
<td>162</td>
<td>9</td>
</tr>
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</table>
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
Clinical Researcher: 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
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.
Funding for Research Environments: SRC matching funds for Horizon 2020

- The Strategic Research Council (SRC) grants national **matching funds** to projects that have received funding under the Societal Challenges priority of Horizon 2020.
  - The aim of SRC matching funds is to encourage research organisations to participate in preparing projects for upcoming EU funding calls.

- Projects eligible to receive SRC matching funds must have received funding in 2015 or thereafter.

- **Applicant:** SRC matching funds can be applied for by research organisations, such as research services or financial administration units.

- 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.**

- **Contact:** Senior Science Adviser **Kyösti Lempa** (kyosti.lempa@aka.fi)
Reminder about Appendix materials

- Do not attach any appendices to the application other than those specifically requested
  - e.g. No letters of recommendation

- Appendices must not be longer than specified in the guidelines
  1) Research plan 12 p./15 p. →See the updated guidelines!
  2) CV no more than 4 pages
  3) List of publications
  4) Data management plan
  5) Other if needed (see the call text)
    - e.g. Degree certificate (Academy research fellows and postdoctoral researchers)

- Give special attention to appearance and readability
  - Font size, margins, pictures
  - Only PDF-format accepted
Applying

Take good care of your application:

• Start well in time
• Carefully read the September call text and follow the instructions
• Ask for help if needed from
  - your colleagues
  - science advisers
  - your university

The deadline is Wednesday 28 September at 16.15
➢ Submit your application on time!
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.

• In the September 2016 Call, **impacts will constitute a separate item in the outline of the Research Plan.**

• Both forms of impact are included in the "**Objectives and expected results**" section of the Research Plan.
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.
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.

• **Questions & Answers will be provided on the AoF website.**
3. OPEN SCIENCE
Openness Is a Key Principle in All Science and 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 should be described in the application.

• 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.
Open Access for Publications

• All publications produced with funding from the Academy of Finland should be made freely available, where possible.
  ➢ Concerns particularly peer-reviewed scientific articles.
  ➢ Academy funding is available for research costs arising from publishing of research results

• 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)
Open Research Data and Methods

• Project data should be stored and made available through major national or international archives or storage services that are important in the fields concerned.

• Research data can have varying degrees of openness ranging from fully open to strictly confidential.

  Researchers must take into consideration ethics and the laws that restrict the use of data, such as the Personal Data Act, Copyright Act.

• Applications should include a data management plan
  1) Research plan (item 4: Research Methods and Material, Research Environment)
  2) Separate appendix: a data management plan
Separate appendix: a data management plan (1-2 pages)

• Describe how the project will manage its research data and how the data will be made available upon project completion.

• Describe the technical issues, choices, possibilities and limitations for delivering open research data.

• 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.

• If the project will not produce any research data to be stored, please provide a brief account of the situation in the appendix.

• DMPTuuli (https://www.dmptuuli.fi/)
Open Science and Evaluation

• 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?

• 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/
September Call 2016: More information

- See what’s new in the call
  - Summary of what’s new in Academy of Finland’s September 2016 call
  - Appendix 4: Open Science: open access publishing and open data
  - Appendix 5: Guidelines for drafting a data management plan
  - Appendix 7: Mobility requirement for academy research fellow and postdoctoral researcher applicants
- Contact the science advisers named as contact persons for the particular call you are applying in (see the call text).
4. EU CALLS
H2020: Funding Opportunities
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.
# 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
   a) 1.1. ICT
   b) 1.2. nanotechnology
   c) 1.3. materials
   d) 1.4. biotechnology
   e) 1.5. manufacturing and processing
   f) 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 integrated 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
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

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

See the ERC Work Programme 2017
ERC National Contact Points

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maiju.gyran@aka.fi
Tel. +358 295 33 5015

Hannele Lahtinen
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hannele.lahtinen@aka.fi
Tel. +358 295 33 5055
## 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
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/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
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/

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!
Thank You

firstname.lastname@aka.fi
5. Q & A