

April call 1–29 April 2011

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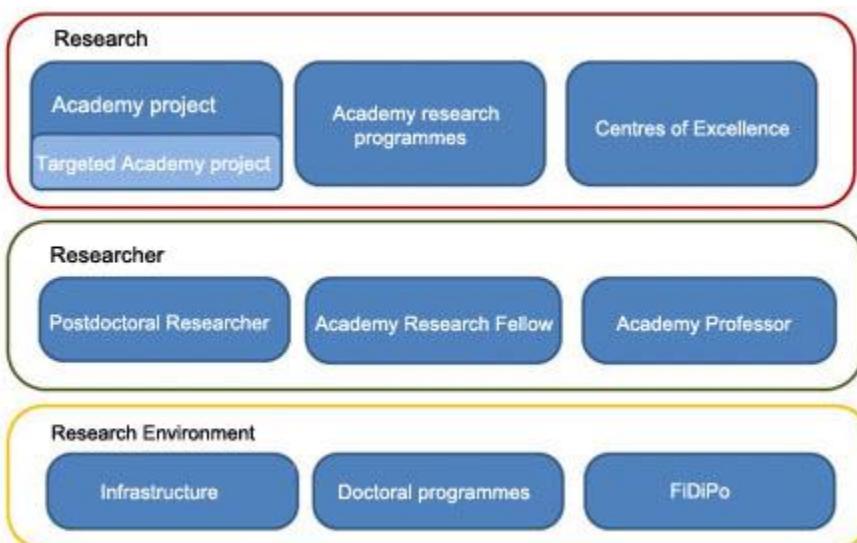
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The Academy of Finland's mission is to finance high-quality and innovative research aiming at scientific breakthroughs, act as a science and science policy expert and strengthen the position of science and research. Academy funding is based on open competition and independent peer review. In 2011, the Academy will make funding decisions worth about EUR 335 million. Each year some 6,000 people work on Academy-funded projects. The Academy promotes equality and encourages women in particular to apply for research funding. For more information on the Academy of Finland go to www.aka.fi/eng.

Academy funding instruments and application deadlines

Substantial changes were made in the Academy of Finland's funding instruments in autumn 2010. These changes were intended to streamline the Academy's funding instruments and to increase the flexibility, efficiency and effectiveness of Academy research funding. In connection with this reform, the Academy also introduced its new application dates and the new online services.

Funding instruments



All of the above funding instruments are designed to support a high scientific quality and international cooperation. Researcher mobility across international, organisational and disciplinary borders is also supported in connection with Academy funding opportunities. More information on the new funding instruments is available in the call for applications and on the Academy's website at www.aka.fi/rahoitusuudistusinfo (in Finnish) and www.aka.fi/eng > For researchers > [Funding opportunities](#).

Application dates

The Academy has two main application rounds: April and September. Annually recurring calls are announced in September, other calls in April or September.

In September, applications are invited for Academy Projects, targeted Academy Projects and research programme projects. In September, funding is also available for personal funding intended for research posts (Academy Professor, Academy Research Fellow, Postdoctoral Researcher and clinical researcher). Funding may also be available for other purposes.

In April, funding is available for targeted Academy Projects (April 2011, research within thematic areas of Strategic Centres for Science, Technology and Innovation, and international joint projects) and for other purposes.

The deadlines for applications for research programmes, doctoral programmes and international calls may differ from the Academy's main application deadlines.

Application guidelines for all calls

Information on open calls is posted on the Academy's website at www.aka.fi/eng > For researchers > [Apply now](#). Applicants are advised to check the deadline separately for each call. Applications received after the deadline can only be considered if the delay is due to causes not attributable to the applicant.

Detailed guidelines for submitting applications are available on the Academy's website at:

- 1) call for applications published twice a year that describes all funding opportunities open for application at that particular time:
www.aka.fi/eng > For researchers > How to apply > [Calls for applications](#)
- 2) detailed guidelines for submitting applications:
www.aka.fi/eng > For researchers > How to apply > [Guidelines](#)
- 3) detailed guidelines on the structure and length of appendices:
www.aka.fi/eng > For researchers > How to apply > [Appendices](#)
- 4) programme memoranda of research programmes to be launched:
www.aka.fi/eng > Research programmes > [Open for application](#).

The Academy requires that applicants read and comply with the call for applications and the other guidelines mentioned above before submitting their applications.

Who is eligible to apply?

Academy of Finland research funding is allocated **on the basis of peer review** to the **best** researchers and research teams and to the **most promising** young researchers for carrying out **scientifically ambitious** projects. Funding for Academy Projects is primarily granted to research teams that are composed of researchers who have already earned their doctorate. In principle, a project to be funded shall serve Finnish research and society or international collaboration.

The applicant (the principal investigator of a research project) for Academy funding must have **the qualifications of a professor or an adjunct professor (docent) or be a researcher with a doctorate**, unless the call indicates or allows otherwise. In some funding opportunities, the applicant is a university or a research institute.

Within the same application round, the Academy will review only one application from one and the same researcher in one of the following funding opportunities:

- Academy Project (principal investigator of a project)
- Academy Project (director of a consortium or sub-project)
- Postdoctoral Researcher
- Academy Research Fellow
- Clinical researcher (targeted funding).

If the applicant does submit more than one application to one or several of the above mentioned funding opportunities, only the first application to arrive will be reviewed. In the case of targeted Academy Projects, decisions on this limitation will be made separately for each call.

Joint funding and full cost model

Academy of Finland research funding is a joint venture in which funds to finance the costs of each project come from at least two sources. In applying for Academy funding, universities, research institutes and other research organisations commit to contributing their percentage of the costs.

In calls where cost calculation is based on the full cost model, the Academy's contribution to the project normally covers no more than 80% of the total costs. This maximum percentage is applied both to the calculation of *estimated* total costs at the application and decision-making stage, and to the calculation of *real* total costs during the course of the project (payment procedure) and upon completion of the project (reporting stage). The percentage is applied to all project costs, i.e. to both direct and indirect costs, including the overheads share.

Research funding applications submitted to the Academy shall include a funding plan in accordance with the full cost model, including the amount of funding applied for from the Academy. At the application and decision-making stage, only funding that is confirmed (e.g. through a decision by the funding body that has granted the funding) is taken into account in the calculation of total project costs. *Costs that are not passed through the books of the site of the research shall not be included in total project costs.*

The sections "How to apply" in the call for applications indicates separately for each funding opportunity whether the full cost model or the model for additional costs previously applied by the Academy (an overheads share of 12.5%) is applied to the cost calculation. When the full cost model is applied, applications shall be written so as to ensure that the Academy's contribution to funding comes to no more than the percentage indicated in the call for applications.

Before submitting their applications, applicants shall contact the administration of their own organisation concerning the contribution of the site of research to the funding of their project. After the application deadline, the Academy will request a commitment by the site of research from the person indicated by the applicant.

Guidelines regarding the full cost model are available on the Academy's website at [> For researchers > How to apply > Full cost model.](http://www.aka.fi/eng)

What is funded?

The Academy of Finland will provide funding for research projects only insofar as the institution (e.g. university department) serving as the site of research undertakes to provide the research project with the necessary basic facilities. These are determined on the basis of the nature of the research, but the **usual basic facilities** are the same as those available to other research staff at the institution, such as office and laboratory premises, equipment (incl. computer equipment), and telecommunications, telephone, mailing, copying and library services.

Academy funding granted towards the direct costs of a research project are intended to cover expenses arising from the research team's working hours, research costs, travel, domestic and international cooperation and mobility, and the preparation of international projects. The Academy may provide funding for the VAT costs associated with the project costs only insofar as the funding recipient (usually the principal investigator's host organisation) is not entitled to

deduct the VAT costs incurred in its operation. For example, universities are not entitled to deduct these VAT costs, and therefore they can be paid from funding granted by the Academy. For this reason, researchers working at universities shall enter their research costs with VAT costs in their applications. For more information on how to enter VAT in the application form, see [> For researchers > How to apply > Value added tax.](http://www.aka.fi/eng)

Academy funding can be used to cover both direct project costs (e.g. direct salaries) and indirect project costs (e.g. costs for premises). Both types of costs are covered to the same percentage.

Personal grants are normally awarded only for work or studies abroad and for a research visit by a foreign researcher to Finland for a maximum of twelve months. A research visit exceeding twelve months requires an employment relationship in Finland. Recommended amounts of monthly grants and a note concerning taxation are available in Appendix 1 and on the Academy's website at [> For researchers > How to apply > Guidelines > Grant amounts.](http://www.aka.fi/eng)

In their applications, applicants shall give a **cost estimate** including an estimate of the annual amount of funding needed, itemised by type of expenditure. Applicants shall also include a **funding plan** with their application, that is, all of the funding that has been granted for the project in question and funding provided by the site of research if the project is launched. Special attention must be given to ensuring that the funding plan is realistic. **The cost estimate shall be justified by type of expenditure in the research plan.**

The Academy does not normally grant funding to cover the salary costs of the principal investigator of a project. For this purpose, the Academy has specific types of funding (research posts as Academy Professor, Academy Research Fellow and Postdoctoral Researcher). However, funding towards the salary costs of the principal investigator of a research project may be applied for **for well-substantiated reasons expressly concerned with research** and for no longer than twelve months. The duties of the principal investigator must be clearly described and the reasons for application for funding towards salary costs must be justified in the research plan (under section 5, Implementation). Such reasons may include working abroad, returning to Finland or moving to another research organisation or company in Finland. Even if funding is not applied for to cover the salary costs of the principal investigator of a research project, the application may include the salary costs of the principal investigator in that funding contribution (referred to as the self-financing proportion of the funding) of the total project costs that is funded from other than Academy sources.

If the principal investigator of a research project does not have an employment relationship with, for example, a university or research institute, he or she shall explain in the application how his or her salary will be covered during the project's funding period. It is the applicant's responsibility to give an account of these details at the application stage.

No fees for purposes of leading a research project can be paid out of Academy research grants.

Funding conditions

The Academy of Finland will provide funding only insofar as the site of research undertakes to provide the researcher with the necessary basic facilities for research.

Academy funding is allocated to the researcher's host organisation. Grants for work abroad may also be allocated directly to the researcher.

Academy funding to organisations outside the central government (e.g. universities) is classed as discretionary government transfers. Since Academy funding is not allocated to individual researchers but to their host organisation, the host organisation is regarded as the recipient of the transfer, in accordance with the Act on Discretionary Government Transfers, and will accordingly be required to assume all related obligations. The decision to grant a discretionary government transfer is subject to specific conditions, in that the organisation receiving the transfer is permitted to use the transfer in question solely for funding research carried out by the principal investigator named in the application.

Staff to be hired with Academy research funding must have an employment relationship with the site of research or the organisation that has received the funding.

If applicants receive any funding from other sources for the same purpose after the application to the Academy of Finland has been submitted, they must immediately notify the Academy of this.

Detailed conditions and guidelines on the use of funding and reporting are available on the Academy's website at www.aka.fi/eng > For researchers > [Use of funding](#).

Commitment by the site of research

The Academy of Finland will provide funding for research projects only insofar as the institution serving as the site of the research undertakes to provide the project with the necessary basic facilities, which are the same as those available for other research staff at the institution, such as office and laboratory premises, equipment (incl. computer equipment), and telecommunications, telephone, mailing, copying and library services.

The application includes a commitment by the site of research on which the applicant shall agree in advance with a representative of the site of research. Before submitting their applications, applicants shall determine the funding contribution and the co-efficients of the site of research, and agree on them with the issuer of the commitment. The co-efficients indicated in the application will be valid during the entire duration of the project. After the application deadline, the Academy will request a commitment by the site of research from the person indicated in the application. By issuing its commitment, the site of research commits to funding the project with the **percentage presented in the funding plan**, and securing the basic facilities for the project and committing to the percentages given in the application form, i.e. the overheads percentage, the percentage for indirect employee costs and the coefficient for effective working hours.

Where the funding in question is awarded to organisations outside central government (e.g. universities), the site of research undertakes to act as the recipient of the discretionary government transfer on behalf of the applicant and will accordingly be required to assume all related obligations. With respect to applicants for a research post as Academy Professor or Academy Research Fellow, the commitment by the site of research also applies to the use of the researcher's working hours for purposes other than research, salaries and other circumstances surrounding the researcher's work.

If funding is not received from any other sources, the site of research shall cover at least 20% of total project costs. If funding is received from other sources, the contributions from those sources must also pass through the books of the site of the research.

Detailed guidelines on how to issue a commitment by the site of research online are available on the Academy's website at [> For researchers > How to apply > Guidelines > Requesting commitment of the site of research.](http://www.aka.fi/eng)

Project collaboration or consortium?

Cooperation between researchers and research teams may be carried out as normal project collaboration. The partners apply independently (with their own applications) for funding for their own projects and the cooperation is described in the research plan of each partner. *Project collaboration applications are reviewed as separate applications.*

Applicants for research funding may also be consortia composed of a number of research projects working at different sites. A consortium is a fixed-time body of individual sub-projects that work under a joint research plan with a view to generating greater added value through systematic collaboration than through normal project collaboration. Any letters of intent of the consortium and the full application with a joint research and funding plan of the consortium are submitted by the consortium leader. In addition, in the call for full applications, the leaders of each consortium sub-project submit their application forms that specify the joint research plan in terms of funding. *A consortium application is reviewed at the Academy as one application* and the decision is made by a research council or sub-committee.

International joint project applications and consortia

In international joint project applications that normally involve at least two projects (i.e. a Finnish and a foreign project), the Finnish partner submits a separate application (not a consortium application) in accordance with the application guidelines. A consortium application is submitted only in cases where the Finnish partner is an applicant operating as a consortium composed of several Finnish projects from different sites of research.

Detailed guidelines on consortium applications and appendices are available on the Academy's website at [> For researchers > How to apply > Guidelines > Guidelines for consortium application.](http://www.aka.fi/eng)

The applications of all sub-projects of a consortium application shall be submitted before the application deadline. The deadline is non-negotiable. If the application of any sub-project is submitted late, the application of the whole consortium is considered to have been submitted late and will not be processed. The composition of a consortium cannot be changed after the deadline.

Strategic Centres for Science, Technology and Innovation

In accordance with a decision by the Academy of Finland Board, the Academy works to promote high-standard scientific research serving the Strategic Centres for Science, Technology and Innovation (known in Finnish under the abbreviation SHOK) through all its funding instruments (Academy of Finland financial and action plan, [> The Academy's Strategic Action Plan for 2012–2015](http://www.aka.fi/eng), in Finnish). The research may be incorporated as part of a specific Strategic Centre or related to the thematic areas of Strategic Centres. Applications will be

reviewed in accordance with the Academy's general procedures and evaluation criteria. The Academy's general evaluation criteria applicable to applicants are available at [> For researchers > Application processing](http://www.aka.fi/eng). For more details on the thematic areas of the Strategic Centres for Science, Technology and Innovation, see [> For researchers > Funding opportunities > Strategic Centres for Science, Technology and Innovation](http://www.aka.fi/eng).

If an application is tied in with a thematic area of a Strategic Centre for Science, Technology and Innovation, the following special guidelines apply to the application: when submitting his or her application, the applicant selects on the list in the online services the Strategic Centre whose thematic area the research is tied in with. If the application is also directly affiliated with a Strategic Centre, the applicant shall attach a statement issued by the Strategic Centre as an attachment file with his or her application. The statement shall confirm that the applicant's project is affiliated with the Strategic Centre and give a description of the role and significance of the applicant's project for the Strategic Centre's operations. If the application is not affiliated with a Strategic Centre but the applicant considers that the application serves the Centre's thematic area, the applicant shall justify this in his or her research plan.

In April 2011, applications are invited for research funding targeted specifically at thematic areas of the Strategic Centres for Science, Technology and Innovation. See the call for applications, section 1.2.1. Research within thematic areas of the Strategic Centres for Science, Technology and Innovation.

Language of application

The Academy of Finland uses mainly foreign experts as scientific reviewers of applications. In order to ensure equal and fluent international peer review of applications and the preparation of funding decisions, applicants are requested to submit their applications in English. However, applicants do have the right to submit their applications in Finnish or Swedish.

Ethical issues

The ethical issues and responsibilities in connection with the application stage are described on the Academy's website at [> For researchers > How to apply > Guidelines > Ethical guidelines](http://www.aka.fi/eng). The ethical issues of the research must always be specified in the research plan and they are reviewed as part of the scientific review.

Mobility plan

The application must include a mobility plan. *In the application form under section "Mobility"*, applicants shall describe how the researcher/researchers of the research project in question intend to carry out national and international mobility during the funding period. Applicants for research posts as Postdoctoral Researcher and Academy Research Fellow shall also give an account of their previous mobility in the application (section "Previous mobility"). *Under section "Partners"*, applicants shall also describe how foreign researchers will participate in the work of the project.

Besides in the application (incl. a detailed description), applicants shall also describe mobility, partners and the use of research infrastructures in the research plan. Detailed guidelines on how to draft a research plan appendix, see [> For researchers > How to apply > Appendices > Research plan](http://www.aka.fi/eng).

Materials management plan

The Academy requires that applicants give an account of how the project proposes to obtain its research material, how the material produced by the project will be used and stored and how the subsequent use of the material will be facilitated. The account shall further cover the rights of ownership and use pertaining to the materials utilised and generated by the project. This is referred to as a ‘materials management plan’ and it shall be presented in connection with the research plan.

The Academy recommends that research projects funded by the Academy deliver any social science research data they have gathered to the Finnish Social Science Data Archive (FSD), www.fsd.uta.fi.

Academy classification of research fields

The Academy of Finland adopted a new, more detailed classification of research fields in 2010. This classification is based on Statistics Finland’s revised Field of Science and Technology (FOS) Classification and the Academy’s previous classification. The classification lists 64 fields of research and a number of sub-categories. In addition to their primary field of research, applicants may also indicate four other research fields and sub-categories in their applications, ranked in order of importance. It is important that, in addition to the research field, applicants also give the keywords describing the research and research methods in a free-text section of the application.

The classification of research fields is attached to this call for applications as Appendix 3. More information is available on the Academy’s website at [> For researchers > How to apply > Guidelines > Research field classification](http://www.aka.fi/eng), where also the research fields hosted by the Research Councils are listed.

Submitting applications, applications pending

Applications for the April 2011 call can be drafted and submitted in the Academy’s online services from 1 April through to 29 April 2011 at 16.15, if not otherwise indicated in the call for applications. The application deadline is non-negotiable.

According to Section 17 of the Finnish Administrative Procedure Act, the sender is responsible for the application arriving by the set deadline. Applications received after the deadline can only be considered if the delay is due to causes not attributable to the applicant. An application is regarded as pending at the Academy when the online application and the appendices defined as obligatory in the online services have been submitted in the online system. The system will indicate the successful submission of an application by sending an email to the address given by the applicant. It is not possible to submit an application in accordance with the full cost model into the Academy’s online system if the applicant has entered a higher funding percentage for the Academy than is given in the call for applications. The procedure for submitting an application in the online services is described in detail in the [How to Guide to the Academy’s online services](#).

If there are problems in the online services at the time of application submission, applicants are advised to contact the Academy before the deadline, either by phone or by using the *Questions*

and feedback link on the Academy's website. To ensure smooth drafting and submission, it is important that applicants submit their applications well in advance of the final deadline.

Applicants shall submit their application in their own name and using their own user identification.

Only the requested appendices are to be appended to an application. The maximum length of appendices indicated in the guidelines must not be exceeded.

Supplementing an application

In contrast to earlier practice, applicants themselves can no longer supplement their applications in the online services within seven days of the submission deadline. If applicants notice significant omissions in the application, or if they have, for instance, received a letter of invitation from a foreign university after the deadline, they are urged to immediately contact the presenting official for the funding opportunity concerned (the contact person named in the call for applications), who will unlock the application so that the applicant can enter the relevant additions. These supplementary additions will only be taken into account insofar as it is possible in view of the review, application processing and decision-making process.

If applicants receive any funding from other sources for the same purpose after the application to the Academy has been submitted, they must immediately notify the Academy of this.

Reviewing applications, deciding not to review

Academy funding is based on a scientific peer review of the research plan and the applicant. The evaluation procedure and the criteria applied by the Academy in the review of applications are presented on the Academy's website at [> For researchers > Review of applications](http://www.aka.fi/eng). Applicants are advised to read these evaluation criteria and any additional guidelines available on the Research Councils' web pages.

The Academy may, for justified reasons, decide not to review an application. In considering whether not to review an application, the criteria include the following:

- the application has arrived late
- the application is substantially incomplete after one request for supplementary information
- the applicant or the application does not meet the competence or other key requirements set for the call
- the application is submitted for a purpose for which the Academy does not grant funding
- the application does not belong to the scope of the call
- the application submitted within a research programme call does not belong to the scope of the programme
- the applicant has in the same application round submitted more than one application for one or several of the following funding opportunities: research post as Academy Research Fellow, research post as Postdoctoral Researcher, or Academy Project. In this case, only the first application received from that applicant will be reviewed.
- the director of a Centre of Excellence is applying for Academy Project funding during the first three years of the six-year funding period; as a general rule this also applies to other researchers closely affiliated with a Centre of Excellence

- the researcher with a research post as Academy Postdoctoral Researcher applies for a research post as Academy Research Fellow, the term of which would partly overlap with the Postdoctoral Researcher term
- the applicant has not followed the guidelines in reporting on a completed or ongoing research project with Academy funding
- it is clearly evident that for some other reasons the applicant will not be eligible for funding on the basis of the application submitted.

An application not reviewed on these grounds cannot be granted funding.

If two similar calls are opened during the same year and an application with essentially the same content is submitted to both calls, the scientific review obtained of the application submitted in the first call may be used for funding decisions made on applications that are submitted in the second call that year.

Publicity of applications

Under the Finnish Act on the Openness of Government Activities (621/1999), an application and its appendices constitute a public document, with the exception of research plans, plans of intent, abstracts and progress reports.

Public project description

If funding is granted for a project, the Academy will publish a public project description on its website, drafted by the applicant in connection with the application. Finnish or Swedish-speaking applicants write their descriptions in Finnish or Swedish in the text field given on the online application form. All applicants shall write the description also in English.

The public project description is a means for the Academy and researchers to disseminate information on Academy-funded research. Consequently, it is important that the project description be as clear and readable as possible – it should be accessible to a general audience. It shall give the reader a brief summary of the key points of the research; for more details see [> For researchers > How to apply > Guidelines > Public description of project.](http://www.aka.fi/eng)

The Academy will not edit public project descriptions, and consequently applicants are responsible for the content, clarity and style of their project descriptions.

Funding decisions and expert reviews

The Academy's decision timetables are posted at the Academy's website at [> For researchers > Funding decisions > Decision timetables](http://www.aka.fi/eng). The projects to be funded and the call-specific press releases related to the decisions are posted at [> For researchers > Funding decisions > Decisions](http://www.aka.fi/eng).

Applicants will receive an automatic message by email after the funding decision has been made. After receiving this message, applicants can log in to the online services with their username and password, select the application on which the decision has been made and see if the decision is favourable or not. Applicants can also read the expert reviews on their applications if such reviews have been used in decision-making.

Academy online services have been upgraded

After the launch of the Academy's new online services in autumn 2010, the Academy has now two online systems for applicants. Logging in to these two systems takes place with different usernames and passwords. The old online system includes all applications that have been submitted before autumn 2010 and the review reports issued on them as well as the research reports.

The Academy's new online system includes the applications submitted to the October 2010 call and the calls opened after that (with a few exceptions) as well as the decisions on these applications. Work is underway *to transfer* the applications and review reports of ongoing projects to the new online system, as well as the applications and review reports of projects that have already ended but that have not yet submitted final reports. The reporting section of the new online services will be launched in May 2011.

More information

In requesting further information applicants are requested to primarily use the *Questions and feedback* link on the Academy's website. For each funding opportunity, the call for applications indicates the presenting officials who can give further information; the email addresses are in the format `firstname.lastname@aka.fi`.

Contact information

Postal address (until 31 Aug 2011)	POB 99, 00501 Helsinki
Street address (until 31 Aug 2011)	Vilhonvuorenkatu 6
Academy address (as of 1 Sep 2011)	Hakaniemenranta 6, POB 131, 00531 Helsinki
Phone (exchange)	(09) 774 881
Fax	(09) 7748 8299
Registrar's Office, phone	(09) 7748 8377
Registrar's Office, office hours	8.00–16.15
Email	mailto:kirjaamo@aka.fi
Other emails	<code>firstname.lastname@aka.fi</code>
Website	http://www.aka.fi/eng
Questions and feedback	link at bottom of website, "Questions and feedback"

Funding open for application in April 2011

In the April 2011 call, funding is available for research within the Academy's research programmes, and for targeted Academy Projects (incl. Strategic Centre projects) and international joint projects.

1 RESEARCH

1.1 Calls within Academy research programmes

1.1.1 Computational Science Research Programme, LASTU, 2011 call

Computational Science Research Programme

One of the key objectives of the Computational Science Research Programme (LASTU) is to promote the use of computational methods in research and throughout society. The research programme is focused on problem-driven computational research that aims at resolving problems by using computational methods. The programme aims at promoting interdisciplinary collaboration between sciences applying computational methods and algorithm and methods development. The content and aims of the research programme have been described in the programme memorandum drafted in 2008. The present call is also based on this programme memorandum.

The LASTU research programme is specifically intended to support projects that will foster the creation of nationally significant research communities and that will be well placed to achieve significant breakthroughs by virtue of the international cooperation and know-how of the people behind the project. As far as possible, the projects within the programme should involve experts of different disciplines or methodologies. At the same time, individual focused projects can have great significance.

The aims of the research programme are:

- promoting the use of computational methods
- improving methodological skills and competencies
- increasing interdisciplinary interaction and collaboration
- enhancing the application of good practices
- international networking.

Themes and focus areas

The first call within the Computational Science Research Programme was opened in 2009. The programme sub-committee decided to grant a total of EUR 8.5 million to seven large-scale consortia. Applications from a wide range of different disciplines were invited to the research programme and the thematic areas were not limited. The projects selected within the first call met these aims very well. From the overall perspective of the programme, however, some thematic areas received relatively less funding than others.

In 2011, applications to the second call of the programme are invited from ambitious projects from a wide range of disciplines, particularly from biology, medicine and the social sciences. As regards methodological skills and competencies, a specific focus of the second call is on the development of computational methods, including mathematical modelling and data-intensive computing. In other respects, the content of the second call is in accordance with the original programme memorandum.

Applicant

Funding can be applied for by individual research projects and by consortia composed of two or several research teams. The applicant is a researcher.

Funding period

Funding for the projects within the second call is granted for four years. The Academy of Finland Board has allocated EUR 4 million for the programme's 2011 call. The funding period will normally start 1 April 2012.

Programme memorandum

The programme memorandum contains more detailed information on the programme's background, aims, themes, detailed application guidelines and the appendices to be appended to the application. The programme memorandum is available on the Academy's website at <http://www.aka.fi/lastu> or from the Academy's Registrar's Office. It is essential to read the programme memorandum to be able to submit a competitive application.

Appendices

Letter of intent by the principal investigator of an individual project

- plan of intent, no more than four pages
- curriculum vitae for the principal investigator, no more than four pages
- list of publications of the principal investigator. Clearly indicate the ten most important publications in terms of the research plan.

Letter of intent by a consortium

Only the consortium leader submits a letter of intent with the following appendices:

- plan of intent of the consortium, no more than six pages
- curricula vitae for the consortium leader and the principal investigators of the sub-projects, no more than four pages/researcher
- lists of publications of the consortium leader and the principal investigators of the sub-projects. Clearly indicate the ten most important publications in terms of the research plan for each sub-project principal investigator.

Only the requested appendices are appended to the application. The appendices shall be drafted in accordance with the Academy's guidelines, see [> For researchers > How to apply > Appendices](http://www.aka.fi/eng). The appendices are drafted in English and appended to the application in the online services under "Appendices". The only exception is the curriculum vitae that is appended under "Personal data/CV".

How to apply

The research programme's 2011 call is carried out in at two stages. **Letters of intent** shall be submitted to the Academy's online services no later than **29 April 2011 at 16.15**. The deadline is non-negotiable. Applications with appendices are drafted in English at [> For researchers > Log in to online services](http://www.aka.fi/eng). Log in and select *New application > LASTU/Computational Science Research Programme 2011, letters of intent*.

Projects to be invited to submit their **full applications** will be selected on the basis of the plans of intent by early July 2011. Applicants who are requested to submit full applications shall submit their applications to the Academy's online services no later than 30 September 2011 at 16.15. The deadline is non-negotiable.

In this call, the full cost model applies to the calculation of the costs of a research project. Applications shall be written so as to ensure that the Academy's contribution to funding comes to no more than 80% of the estimated total costs of the project. See guidelines on how to enter the costs in the application on the Academy's website at [> For researchers > How to apply > Full cost model](http://www.aka.fi/eng).

More detailed application guidelines are available in the programme memorandum at
<http://www.aka.fi/lastu>.

More information

- Programme Manager Saila Karvinen, Programme Unit, tel. +358 40 591 3518
- Programme Manager Anssi Mälkki, Programme Unit, tel. +358 40 702 7921
- Project Officer Ritva Helle, Programme Unit, tel. +358 40 586 4679
<http://www.aka.fi/lastu>

1.1.2 Research Programme on Climate Change (FICCA), international joint project calls

In spring 2011, funding is available within the Academy's FICCA research programme in the following three international joint project calls:

1.1.2.1 Societal implications and consequences of climate change, including climate policy

Academy of Finland and Russian Foundation for the Humanities (RFH)

The deadline is 29 April 2011.

1.1.2.2 Atmospheric composition and adaptation of the ecosystem to climate change

Academy of Finland and Chinese Academy of Sciences (CAS)

Please note: the deadline is 20 May 2011.

1.1.2.3 Societal implications and consequences of climate change

Academy of Finland and Chinese Academy of Social Sciences (CASS)

The deadline is 29 April 2011.

More information on the FICCA research programme

- Programme Manager Paavo-Petri Ahonen, Programme Unit, tel. 040 189 6233
- www.aka.fi/ficca

1.1.2.1 Societal implications and consequences of climate change, including climate policy (Academy of Finland and Russian RFH)

The Academy of Finland and the Russian Foundation for the Humanities (RFH) launch a joint call for applications to promote Finnish-Russian research collaboration in the field of global climate change. Relevant research areas of the joint call include the following topics:

- Societal implications and consequences of climate change
- Climate policy.

The aim of the joint call is to support long-term systematic research collaboration and to establish and strengthen research networks between Finland and Russia. Applications must include teams from both countries.

Funding

The successful project applications will be funded in Finland by the Academy of Finland and in Russia by the RFH. The national funding organisations will fund only those project components that are carried out within their respective country. The Academy has earmarked a

total of EUR 1.25 million for the projects to be funded. The research projects are funded for a maximum of three years.

Review of applications

The scientific evaluation of the joint applications will be carried out by the national funding organisations in accordance with their respective procedures.

The most important evaluation criteria:

- Scientific quality and innovativeness of the joint research plan
- Added value to be expected from the Finnish-Russian research collaboration

Other important evaluation criteria:

- Feasibility of the joint research plan
- Competence and expertise of the Finnish and Russian researchers/research teams
- Promotion of young researchers' careers

The funding organisations will agree on the joint projects to be funded based on the scientific evaluations and consensus reached through discussions.

Joint project planning

Each project co-leader of the bilateral collaborative projects must submit a funding application to the respective national funding organisation according to their rules. The project budget must clearly delineate justified costs. The costs of the Finnish partner must be eligible in accordance with the guidelines of the Academy of Finland. Applicants are reminded to include a sufficient budget for travel between Finland and the partner country/countries to ensure successful collaboration.

Appendices to the Academy of Finland

Obligatory appendices:

- joint research plan (no more than 15 pages), which will include
 - description of the added value to be expected from the collaboration
 - clear description of the planned research collaboration (distribution of work and methods of implementation)
 - responsibilities of both partners
 - joint budget of the joint research project including separate budgets for both partners. A budget may include costs for salaries, researcher mobility, joint meetings etc. Justification for the costs shall be given in the research plan.
 - description of the project's significance to researcher training and the development of the research environment.
- curricula vitae for the Finnish and Russian co-leader of the bilateral collaborative project, no more than four pages, including start and end dates of employment relationships
- lists of publications of the Finnish and Russian co-leader of the bilateral collaborative project and those researchers whose salaries funding is applied for, provided the names of the researchers are known. Clearly indicate the ten most important publications in terms of the research plan.

Case-specific appendices:

- invitation from foreign university or research institute, if the research or part of it will be conducted abroad

- statement by an ethics committee or the Committee on Animal Experimentation (if relevant). The ethical aspects shall always be specified in the research plan.
- statement by a Strategic Centre for Science, Technology and Innovation, if relevant, confirming that the applicant's project is affiliated with the Strategic Centre and justifying the significance of the project for the Strategic Centre's operations
- progress report on all Academy-funded research projects headed by the applicant that have not submitted final reports.

Only the requested appendices are appended to the application. The appendices shall be drafted in accordance with the Academy's guidelines, see [> For researchers > How to apply > Appendices](http://www.aka.fi/eng). The appendices are appended to the application in the online services under "Appendices". The only exception is the Finnish applicant's curriculum vitae that is appended under "Personal data/CV".

How to apply

The deadline for applications addressed to the Academy of Finland is **29 April 2011 at 16.15**. The deadline is non-negotiable.

The Russian partners apply for funding from the RFH in accordance with its respective practices.

In this call, the full cost model is applied to the calculation of the costs of the Finnish research project. Applications shall be written so as to ensure that the Academy's contribution to funding comes to no more than 80% of the estimated total costs of the Finnish project. See the guidelines on how to enter the costs in the application on the Academy's website at [> For researchers > How to apply > Full cost model](http://www.aka.fi/eng).

Applications are drafted at [> For researchers > Log in to online services](http://www.aka.fi/eng). Log in and select *New application > FICCA/Societal implications and consequences of climate change and climate policy, RFH*.

More information

- Academy of Finland: Programme Manager Paavo-Petri Ahonen, tel.+358 40 189 6233
- RFH: Vladimir Zakharov, Director of the regional, international and targeted calls, Ul. Presnenskii val, D. 17, 123557 Moscow, tel. +7 499 702 8556, email: [zakharov\(at\)rfh.ru](mailto:zakharov(at)rfh.ru)

1.1.2.2 Atmospheric composition and ecosystem adaptation to climate change (Academy of Finland and Chinese CAS)

The Academy of Finland and the Chinese Academy of Sciences (CAS) launch a joint call for applications to promote Finnish-Chinese research collaboration in the field of climate change and ecosystem adaptation. Relevant research areas of the joint call include the following topics:

- Atmospheric composition in relation to climate change and modelling (keywords including one of the following: greenhouse gases, aerosols)
- Ecosystem adaptation (keywords including one of following: forest resilience, ecosystem services, sustainable agriculture).

The aim of the joint call is to support long-term systematic research collaboration and to establish and strengthen research networks between Finland and China. Applications must include teams from both countries.

Funding

The successful project applications will be funded by the Academy of Finland in Finland and the CAS in China. In China, the principal investigator or the leader of the research group must be based at an institute of the CAS. In Finland, the call is open for researchers based at universities and research institutes. Both national funding organisations will fund only those project components that are carried out within its country. The Academy has earmarked a total of EUR 1.25 million for projects to be funded. The research projects are funded for a maximum of three years.

Review of applications

The joint research applications will be peer reviewed by both national funding bodies separately. Both parties will use their respective evaluation procedures and the evaluations will be based on scientific excellence. The evaluation criteria are:

- relevance of the project to the theme of the joint call
- scientific quality and innovativeness of the research plan
- competence and expertise of the applicant /research team
- added value of the collaborative project
- feasibility of the research plan
- national and international networks of the applicants /research team.

The funding organisations will agree on the joint projects to be funded based on the scientific evaluations.

Joint project planning

All individual sub-projects of the bilateral collaborative projects must submit a joint research proposal to the respective national funding organisation in accordance with its rules.

The project budget must clearly delineate justified costs. The costs of the Finnish partner must be eligible in accordance with the guidelines of the Academy of Finland. Applicants are reminded to include a sufficient budget for travel between Finland and the partner country/countries to ensure successful collaboration.

In the case of mutual researcher visits between Finland and China, the visiting researcher will cover international flights, and the host will provide the local accommodation together with daily maintenance allowance and domestic travel costs. As the joint research projects are funded in the bilateral mode, researcher mobility between the countries should be balanced.

Appendices to the Academy of Finland

Obligatory appendices:

- joint research plan including the following (in English):
 - cover page with names and addresses of the Finnish and Chinese project co-leader
 - joint project summary (max. one page, 12 pt and 1.5 line spacing)
 - joint plan with a general description of the project including the scope, topic, relevance, overall approach and structure of the cooperation and synergy for the collaborative project as a whole (max. 12 pages, 12 pt and 1.5 line spacing).
 - overall financial plan for the joint application (max. 2 pages)

- description of how the results will be disseminated (max. one page, 12 pt and 1.5 line spacing).
- annex with short CVs for the Finnish and Chinese co-leader of the project (max. 2 pages, incl. 10 selected publications).
- curriculum vitae for the applicant, no more than four pages, including start and end dates of employment relationships
- list of publications of the applicant. Clearly indicate the ten most important publications in terms of the research plan.

Case-specific appendices:

- invitation from foreign university or research institute, if the research or part of it will be conducted abroad
- statement by an ethics committee or the Committee on Animal Experimentation (if relevant). The ethical aspects shall always be specified in the research plan.
- statement by a Strategic Centre for Science, Technology and Innovation, if relevant, confirming that the applicant's project is affiliated with the Strategic Centre and justifying the significance of the project for the Strategic Centre's operations
- progress report on all Academy-funded research projects headed by the applicant that have not submitted final reports.

Only the requested appendices are appended to the application. The appendices shall be drafted in accordance with the Academy's guidelines, see [> For researchers > How to apply > Appendices](http://www.aka.fi/eng). The appendices are appended to the application in the online services under "Appendices". The only exception is the Finnish applicant's curriculum vitae that is appended under "Personal data/CV".

How to apply

The deadline differs from the Academy's normal application deadline. The deadline for applications addressed to the Academy of Finland is **20 May 2011 at 16.15**. The deadline is non-negotiable. CAS partners apply for funding from the CAS in accordance with its practices.

In this call, the full cost model is applied to the calculation of the costs of the Finnish research project. Applications shall be written so as to ensure that the Academy's contribution to funding comes to no more than 80% of the estimated total costs of the Finnish project. See the guidelines on how to enter the costs in the application on the Academy's website at [> For researchers > How to apply > Full cost model](http://www.aka.fi/eng).

Applications are drafted at [> For researchers > Log in to online services](http://www.aka.fi/eng). Log in and select *New application > FICCA/Climate change and ecosystem adaptation, CAS*.

More information

- Academy of Finland: Programme Manager Paavo-Petri Ahonen, tel. +358 40 189 6233
- CAS: WANG Dongyao, Program Officer, CAS, tel. +86 10 6859 7274, email: dywang(at)cashq.ac.cn

1.1.2.3 Societal implications and consequences of climate change (Academy of Finland and Chinese CASS)

The Academy of Finland and the Chinese Academy of Social Sciences (CASS) launch a joint call for applications to promote Finnish-Chinese research collaboration in the field of societal implications and consequences of climate change. Relevant research areas of the joint call include the following topics:

- Climate-induced changes related to the economy, culture, education and communities, including changes in infrastructure due to climate or weather conditions
- Communications, its effectiveness and social dialogue
- Effects on global economic structures and financing mechanisms.

The aim of the joint call is to support long-term systematic research collaboration and to establish and strengthen research networks between Finland and China. Applications must include teams from both countries.

Funding

The successful project applications will be funded in Finland by the Academy of Finland and in China by the CASS. In China, the principal investigator or the leader of the research group must be based at an institute of the CASS. Both national funding organisations will fund only those project components that are carried out within their respective country. The Academy has earmarked a total of EUR 1 million for projects to be funded. The research projects are funded for a maximum of three years.

Review of applications

The applications will be jointly evaluated by foreign scientific experts (neither Finnish nor Chinese) on the basis of scientific excellence. The evaluation criteria are:

- relevance of the project to the theme of the joint call
- scientific quality and innovativeness of the research plan
- competence and expertise of the applicant /research team
- added value of the collaborative project
- feasibility of the research plan
- national and international networks of the applicants /research team.

The national funding organisations will make their funding decisions independently and in accordance with their respective procedures, but on the basis of the scientific evaluation.

Joint project planning

Each project co-leader of the bilateral collaborative projects must submit a joint research proposal to the respective national funding organisation in accordance with its rules.

The project budget must clearly delineate justified costs. The costs of the Finnish partner must be eligible in accordance with the guidelines of the Academy of Finland. Applicants are reminded to include a sufficient budget for travel between Finland and the partner country/countries to ensure successful collaboration.

In the case of mutual researcher visits between Finland and China, the visiting researcher will cover international flights and the host will provide the local accommodation together with a daily maintenance allowance and domestic travel costs. As the joint research projects are funded in the bilateral mode, researcher mobility between the countries should be balanced.

Appendices to the Academy of Finland

Obligatory appendices:

- joint research plan (no more than 15 pages), which will include
 - description of the added value to be expected from the collaboration
 - clear description of the planned research collaboration (distribution of work and methods of implementation)
 - responsibilities of both partners
 - joint budget of the joint research project including separate budgets for both partners. A budget may include costs for salaries, researcher mobility, joint meetings etc. Justification for the costs shall be given in the research plan.
 - description of the project's significance to researcher training and to the development of the research environment
- curricula vitae for the Finnish and Chinese co-leader of the bilateral collaborative project, no more than four pages, including start and end dates of employment relationships
- lists of publications of the Finnish and Chinese co-leader of the bilateral collaborative project and those researchers whose salaries funding is applied for, provided the names of the researchers are known. Clearly indicate the ten most important publications in terms of the research plan.

Case-specific appendices:

- invitation from foreign university or research institute, if the research or part of it will be conducted abroad
- statement by an ethics committee or the Committee on Animal Experimentation (if relevant). The ethical aspects shall always be specified in the research plan.
- statement by a Strategic Centre for Science, Technology and Innovation, if relevant, confirming that the applicant's project is affiliated with the Strategic Centre and justifying the significance of the project for the Strategic Centre's operations
- progress report on all Academy-funded research projects headed by the applicant that have not submitted final reports.

Only the requested appendices are appended to the application. The appendices shall be drafted in accordance with the Academy's guidelines, see [> For researchers > How to apply > Appendices](http://www.aka.fi/eng). The appendices are appended to the application in the online services under "Appendices". The only exception is the Finnish applicant's curriculum vitae that is appended under "Personal data/CV".

How to apply

The deadline for applications addressed to the Academy of Finland is **29 April 2011 at 16.15**. The deadline is non-negotiable. The project co-leaders at the CASS apply for funding from the CASS in accordance with its practices.

In this call, the full cost model is applied to the calculation of the costs of the Finnish research project. Applications shall be written so as to ensure that the Academy's contribution to funding comes to no more than 80% of the estimated total costs of the Finnish project. See the guidelines on how to enter the costs in the application on the Academy's website at [> For researchers > How to apply > Full cost model](http://www.aka.fi/eng).

Applications are drafted at [> For researchers > Log in to online services](http://www.aka.fi/eng). Log in and select *New application > FICCA/ Societal implications and consequences of the climate change, CASS*.

More information

- Academy of Finland: Programme Manager Paavo-Petri Ahonen, tel. +358 40 189 6233
- CASS: Mao Shuo, Program Officer, Bureau of International Cooperation, CASS, tel. +86 10 8519 5140, email: maoshuo(at)cass.org.cn

1.2 Targeted Academy Projects

1.2.1 Research within thematic areas of Strategic Centres for Science, Technology and Innovation

Objective

The objective of the Academy of Finland is to ensure that innovation development involves a sufficient amount of cutting-edge basic research. The aim is to increase the number of high-level researchers involved in the work of the Strategic Centres for Science, Technology and Innovation (known in Finnish under the abbreviation SHOK) and thus contribute to ensuring the necessary scientific expertise. Research to be carried out in the thematic areas of the Strategic Centres shall be long-term and of a high international standard.

The Academy of Finland opens a targeted call for research within two thematic areas of the Strategic Centres for Science, Technology and Innovation. The themes are 1) Methods and applications of data reserves, and 2) Individual susceptibility to infections and biomarkers. The Academy has earmarked a maximum of EUR 5 million for funding research projects within Strategic Centres. The funding of the three-year projects will start in 2012 and end in 2014.

The aim is to support researchers working in strategically important areas of the Strategic Centres for Science, Technology and Innovation, universities and research institutes. Researchers working on the projects to be funded are expected to carry out and actively promote internationally competitive research and thus further strengthen the Centres' research environments. High scientific quality is the prime criterion in the selection of the projects to be funded.

Applicant

The applicant (i.e. the principal investigator of a project) working at a university or research institute must have the qualifications of a professor or an adjunct professor (docent).

Applications can be drafted in cooperation with one or several Strategic Centres.

Special terms

When preparing their research plans, applicants are expected to contact the Strategic Centre to ensure the significance of the project in terms of the Strategic Centre's research, as well as to agree on the research plan, resources, tasks and responsibilities of the project with the relevant Strategic Centre, university or research institute and other potential funding bodies. Applicants shall append to their applications a free-form account signed jointly by the applicant and the relevant Strategic Centre, describing the significance of the proposed research and the added value it is expected to generate to the Centre. Only applications that are clearly significant to the Strategic Centre will be reviewed and can receive funding.

Themes

Applications are invited from various fields of research. The call covers the following themes:

Methods and applications of data reserves

- Management of large data volumes and data reserves
- Rich data reserves
- Modelling and analysis
- Services based on data services.

Individual susceptibility to infections and biomarkers (genetic and mental susceptibility factors and individual behaviour and environmental impacts)

- Insights into the susceptibility to infections at life's turning points by means of different data reserves
- User experience and user-centred approach in infection diagnostics and monitoring at home
- Cooperation models for individuals and service providers in personalised diagnostics of infections
- Clinical infection examination
- Infection biomarkers.

Appendices

Only the requested appendices are appended to the application. The appendices shall be drafted in accordance with the Academy's guidelines, see [> For researchers > How to apply > Appendices](http://www.aka.fi/eng). The appendices are drafted in the same language as the application and appended to the application in the online services under "Appendices". The only exception is the curriculum vitae that is appended under "Personal data/CV".

1 Appendices to an application concerning an individual project or project collaboration**Obligatory appendices:**

- research plan, drafted in accordance with the Academy's guidelines, no more than twelve pages
- curriculum vitae for the applicant, no more than four pages, including start and end dates of employment relationships, as well as the Finnish- or Swedish-language titles of employment relationships in Finland
- list of publications of the applicant. Clearly indicate the ten most important publications in terms of the research plan.
- a free-form account (max. one A4 sheet) jointly signed by the applicant, the site of research and the relevant Strategic Centre describing the significance of the proposed research to the Strategic Centre and the added value it is expected to generate.

Case-specific appendices:

- invitation from foreign university or research institute, if the research or part of it will be conducted abroad
- statement by an ethics committee or the Committee on Animal Experimentation (if relevant). The ethical aspects shall always be specified in the research plan.
- progress report on all Academy-funded research projects headed by the applicant that have not submitted final reports.

2 Appendices to an application concerning a consortium

For detailed guidelines on drafting consortium applications, see [> For researchers > How to apply > Guidelines > Guidelines for consortium application](http://www.aka.fi/eng). The appendices drafted in accordance with the guidelines are appended only to the application of the consortium leader.

2.1 Application by consortium leader

With the online application, funding is applied for only for the consortium leader's own research team. The following appendices are appended to the application:

Obligatory appendices:

- research plan drafted in accordance with the consortium guidelines, no more than 15 pages
- curricula vitae for the consortium leader and the principal investigators of the sub-projects, combined as one document, no more than four pages/researcher
- lists of publications of the consortium leader and the principal investigators of the sub-projects. The length of the lists is not limited. Clearly indicate the ten most important publications for each leader in terms of the project.
- free-form account (max. one A4 sheet) jointly signed by the applicant, the site of research and the relevant Strategic Centre describing the significance of the proposed research to the Strategic Centre and the added value it is expected to generate.

Case-specific appendices:

- statement by an ethics committee or the Committee on Animal Experimentation, if relevant. The ethical aspects shall always be specified in the research plan.
- progress report on all Academy-funded research projects of the consortium leader and the principal investigators of the sub-projects that have not submitted final reports
- invitation from foreign university or research institute, if the research or part of it will be conducted abroad; if needed, several invitations combined as one scanned appendix.

2.2 Application by principal investigator of consortium sub-project

Only an online application is filled in with which funding is applied for only for the research team of the principal investigator of a consortium sub-project. No appendices are appended to the application of the sub-project. The consortium leader collects and combines all appendices of the consortium as part of his or her application.

How to apply

The full cost model applies to the calculation of the costs of a Strategic Centre research project. Applications shall be written so as to ensure that the Academy's contribution to funding comes to no more than 80% of the estimated total costs of the project. See guidelines on how to enter the costs in the application on the Academy's website at www.aka.fi/eng > For researchers > How to apply > [Full cost model](#).

If the applicant is a consortium (of applicants), see detailed guidelines at www.aka.fi/eng > For researchers > How to apply > Guidelines > [Guidelines for consortium application](#). The applications of all sub-projects of a consortium shall be submitted before the deadline. If the application of any sub-project of the consortium is submitted late, the application of the whole consortium is considered to have been submitted late and will not be processed. The composition of the consortium cannot be changed after the deadline.

The deadline is **29 April 2011 at 16.15**. The deadline is non-negotiable and also applies to the sub-applications of a consortium. Applications are drafted at www.aka.fi/eng > For researchers > [Log in to online services](#). Log in and select *New application* > **Strategic Centre (SHOK) call April 2011**.

More information

- Programme Manager Jukka Reivinen, Programme Unit, tel. +358 40 848 7964

- Project Officer Hanna-Kaisa Haaksi, Programme Unit, tel. +358 40 777 1495

1.2.2 Joint calls with international funding organisations

1.2.2.1 Food biotechnology (Academy of Finland and Indian DBT)

The Academy of Finland and the Indian Department of Biotechnology (DBT) launch a joint call for proposals to promote Indo-Finnish cooperation in the field of food biotechnology.

The focus is on the development of biotechnical processes in foodstuff research, covering all issues where biotechnology is applied. The three-year projects can cover the following topics, for instance:

- Nutrition, genetic factors and metabolism
- Food, immunity, intestinal microbes and health
- Food-related risks and food safety
- Food processing and health
- Food by-product valorisation.

The aim is to support long-term systematic research collaboration, researcher mobility and the creation and strengthening of research collaboration networks between Finland and India.

Funding

The successful projects will be funded in Finland by the Academy of Finland and in India by the DBT. The joint projects must meet the criteria of the funding organisations. The Academy has earmarked a total of EUR 2.5 million for projects to be funded. The research projects are funded for a maximum of three years.

Review of applications

The Academy of Finland and the DBT will arrange a joint evaluation. The Academy and the DBT will form a mutual understanding on the projects to be funded.

Evaluation criteria of the Academy and the DBT

- scientific quality and innovativeness of the research plan
- added value of the Indo-Finnish research collaboration
- feasibility of the research plan
- scientific merits and results of the Finnish and Indian researchers/research teams
- support for careers of young researchers.

Joint project planning

The Finnish and Indian co-applicants will develop one joint research plan that will be sent both to the Academy of Finland and to the DBT using their respective forms. The applications must include a statement on how the proposed collaboration is expected to bring added value to both countries.

The project budget must clearly delineate justified Finnish and Indian costs. The costs of the Finnish partner must be eligible in accordance with the guidelines of the Academy of Finland. Accordingly, the costs of the Indian partner must be eligible in accordance with the guidelines of the DBT. Applicants are reminded to include sufficient budget for travel between Finland and India to ensure successful collaboration.

Applications addressed to the DBT

The Indian research team applies for funding from the DBT in accordance with the DBT's guidelines. The Academy advises applicants to make sure that their partner is eligible to apply for funding from the DBT.

Applications shall be made in accordance with the DBT's procedure for international collaboration and on form No. 14 available on the DBT website at <http://dbtindia.nic.in>.

Applications addressed to the Academy of Finland

Obligatory appendices:

- research plan, no more than 12 pages (individual application) or 15 pages (consortium application), including
 - clear description of the planned research and research collaboration (distribution of work and methods of implementation) and of the added value to be generated from the collaboration
 - joint budget and separate budgets for both partners
 - justification for the funding applied for
 - description of researcher training to be carried out within the project
 - description of research mobility to be carried out during the project
- curriculum vitae for the Finnish applicant(s), no more than four pages, and curriculum vitae for the Indian applicant, no more than four pages, combined as one document
- list of publications of the Finnish and of the Indian applicant(s) (combined as one document), in which the ten most important publications in terms of the research plan are clearly indicated.

Case-specific appendices:

- invitation from foreign university or research institute, if the research or part of it will be conducted abroad
- statement by an ethics committee or the Committee on Animal Experimentation (if relevant). The ethical aspects shall always be specified in the research plan.
- statement by a Strategic Centre for Science, Technology and Innovation, if relevant, confirming that the applicant's project is affiliated with the Strategic Centre and justifying the significance of the project for the Strategic Centre's operations
- progress report on all Academy-funded research projects headed by the applicant that have not submitted final reports.

Only the requested appendices are appended to the application. The appendices shall be drafted in accordance with the Academy's guidelines, see [> For researchers > How to apply > Appendices](http://www.aka.fi/eng). The appendices are appended to the application in the online services under "Appendices". The only exception is the Finnish applicant's curriculum vitae that is appended under "Personal data/CV".

How to apply

The Finnish and Indian partners apply for funding from their national funding organisations in accordance with their respective practices. The deadline for applications addressed to the Academy of Finland is **27 May 2011 at 16.15**. The deadline is non-negotiable.

In this call, the full cost model is applied to the calculation of the costs of the Finnish research project. The costs of the Indian research project are given only in the research plan.

Applications shall be written so as to ensure that the Academy's contribution to funding comes to no more than 80% of the full costs of the Finnish project. See the guidelines on how to enter the costs in the application on the Academy's website at [> For researchers > How to apply > Full cost model.](http://www.aka.fi/eng)

Applications are drafted at [> For researchers > Log in to online services](http://www.aka.fi/eng). Log in and select *New application* > **Food biotechnology, Indian DBT**.

More information

Academy of Finland

- Science Adviser Hannele Lahtinen, tel. +358 400 295 645
- Senior Science Adviser Jaana Roos, tel. +358 40 586 4587
- Programme Manager Merja Kärkkäinen, tel. +358 40 167 8010
- www.aka.fi/en-gb/A/For-researchers/Funding/International-cooperation/Asia/India/Joint-projects-with-India/

DBT

- Dr Rajesh Kapur, tel. +91 11 2436 0745, kapur@dbt.nic.in
- Dr Shailja Gupta, tel. +91 11 2436 3748, shailja@dbt.nic.in
- <http://dbtindia.nic.in>

1.2.2.2 Nanomaterials research (Academy of Finland and Indian DST)

The Academy of Finland and the Indian Department of Science and Technology (DST) launch a joint call for proposals to promote Indo-Finnish cooperation in the field of nanomaterials research. Other aims of the joint call are to support long-term systematic research collaboration and to establish and strengthen research collaboration networks between Finland and India.

Funding

The successful projects will be funded in Finland by the Academy of Finland and in India by the DST. The joint projects must meet the criteria of the funding organisations. The Academy has earmarked a total of EUR 2.5 million for projects to be funded. The research projects are funded for a maximum of three years. The funding period starts by January 2012.

Joint project planning

The Finnish and Indian co-applicants will develop one joint research plan that will be sent both to the Academy of Finland and to the DST using their respective forms. The applications must include a statement on how the proposed collaboration brings added value to both countries.

The project budget must clearly delineate justified Indian and Finnish costs. The costs of the Finnish partner must be eligible in accordance with the guidelines of Academy of Finland. Accordingly, the costs of the Indian partner must be eligible in accordance with the guidelines of the DST. Applicants are reminded to include a sufficient budget for travel between Finland and India to ensure successful collaboration.

When drawing up their budget, applicants shall take into account that the Finnish partner pays the travel expenses of the visiting Indian researcher in Finland as well as his/her accommodation, and daily allowances. Correspondingly, the Indian partner pays the travel expenses in India of the Finnish researcher as well as his/her accommodation and daily

allowances. As the joint research projects are funded in the bilateral mode, the researcher mobility between the two countries should be balanced.

Review of applications

The Academy of Finland and the DST will each arrange the evaluation of the applications they receive according to their own rules, regulations and practices. The Academy of Finland and the DST will form a mutual understanding on the projects to be funded. The evaluation criteria are:

- scientific quality and innovativeness of the research plan
- added value of the Indo-Finnish research collaboration
- feasibility of the research plan
- scientific merits and results of the Finnish and Indian researchers/research teams
- support for careers of young researchers.

The Finnish and Indian partners apply for funding from their national funding organisations in accordance with their respective practices.

Applications addressed to the DST

The Indian research team applies for funding from the DST in accordance with the DST's guidelines. The Academy advises applicants to make sure that their partner is eligible to apply for funding from the DST. Please note that the Finnish partner's signature is required in the application addressed to the DST by the Indian partner.

The Indian researchers can download the proposal forms at the websites www.dst.gov.in and www.stic-dst.org and submit six hard copies (1 original + 5 copies) and one digital copy on CD to the DST no later than 31 May 2011 through the proper channel. One advance copy (in a single MS Word file) must also be sent by email to rajivarc@nic.in.

Applications addressed to the Academy of Finland

The deadline for applications addressed to the Academy of Finland is **31 May 2011 at 16.15**.

Obligatory appendices:

- research plan, no more than 15 pages, including
 - clear description of the planned research and research collaboration (distribution of work and methods of implementation) and the added value to be generated from the collaboration
 - joint budget including separate budgets for both partners
 - justification for the funding applied for
 - description of researcher training to be carried out within the project
 - mobility plan detailing the research project's national and international mobility plans during the funding period, describing the involvement of foreign researchers in the project, and explaining other ways in which the project intends to transcend international, national, institutional and public/private-sector boundaries.
- curriculum vitae for the Finnish applicant, no more than four pages, and curriculum vitae for the Indian applicant, no more than four pages
- lists of publications of the Finnish and the Indian applicant (the number of the publications is not limited). Clearly indicate the ten most important publications in both lists of publications in terms of the research plan.

Case-specific appendices:

- invitation from foreign university or research institute, if the research or part of it will be conducted abroad
- statement by an ethics committee or the Committee on Animal Experimentation (if relevant). The ethical aspects shall always be specified in the research plan.
- statement by a Strategic Centre for Science, Technology and Innovation, if relevant, confirming that the applicant's project is affiliated with the Strategic Centre and justifying the significance of the project for the Strategic Centre's operations
- progress report on all Academy-funded research projects headed by the applicant that have not submitted final reports.

Only the requested appendices are appended to the application. The appendices shall be drafted in accordance with the Academy's guidelines, see [> For researchers > How to apply > Appendices](http://www.aka.fi/eng). The appendices are drafted in the same language as the application and appended to the application in the online services under "Appendices". The only exception is the Finnish applicant's curriculum vitae that is appended under "Personal data/CV".

How to apply

In this call, the full cost model is applied to the calculation of the costs of the Finnish research project. The costs of the Indian partners are given only in the research plan. Applications shall be written so as to ensure that the Academy's contribution to funding comes to no more than 80% of the estimated total costs of the Finnish project. See guidelines on how to enter the costs in the application on the Academy's website at [> For researchers > How to apply > Full cost model](http://www.aka.fi/eng).

The deadline differs from the Academy's normal deadlines. The deadline for applications for Academy funding is **31 May 2011 at 16.15**. The deadline is non-negotiable. Applications are drafted at [> For researchers > Log in to online services](http://www.aka.fi/eng). Log in and select *New application > Nanomaterials research, Indian DST*.

More information

Academy of Finland

- Science Adviser Tuukka Lehtiniemi, tel. +358 40 159 1396
- Senior Science Adviser Jaana Roos, tel. +358 40 586 4587

DST

- Shri Rajiv Kumar, Scientist 'D' (Department of Science and Technology, DST, India), fax +91 11 26862418, email: rajivarc@nic.in, <http://www.dst.gov.in/>

1.2.2.3 Immunology (Academy of Finland, German DFG and Chinese NSFC)

The Academy of Finland, Deutsche Forschungsgemeinschaft (DFG) and the National Natural Science Foundation of China (NSFC) launch a joint call for proposals to promote Finnish-German-Chinese research collaboration in the field of immunology. Relevant research areas on the joint call include the following topics:

- Tumour immunity
- Infection immunity
- Immune regulation and autoimmune diseases.

The aim of the joint call is to support long-term systematic research collaboration and to establish and strengthen research networks between Finland, Germany and China. Applications

must include teams from at least two partner countries; all three countries are not required per application.

More detailed information on the objectives and eligible research areas of the joint call are available in the international call text at www.aka.fi/immunology2011.

Funding

The successful project proposals will be funded in Finland by the Academy of Finland, in Germany by the DFG and in China by the NSFC. Each national funding organisation will fund only those project components that are carried out in their respective country. The Academy has earmarked a total of EUR 1.5 million. The research projects are funded for a maximum of three years.

Review of applications

The scientific evaluation of the joint research proposals will be carried out by international scientific experts. The funding organisations will agree on the joint projects to be funded based on the scientific evaluations.

Evaluation criteria:

- Relevance of the project to the theme of the joint call
- Scientific quality and innovativeness of the research project
- Feasibility of the research plan
- Cost-effectiveness of the budgetary plan
- Competence and expertise of the researchers/research teams
- Effective communication and cooperation between the researchers in each country and added value of the collaboration
- Mobility of researchers between the participating countries.

Joint project planning

All individual sub-projects of any bilateral and trilateral collaborative project must submit a joint research proposal to the respective funding organisation according to its rules. The project budget must clearly delineate justified costs. The costs of the Finnish partner must be eligible in accordance with the guidelines of the Academy of Finland. Applicants are reminded to include sufficient budget for travel between Finland and the partner country/countries to ensure successful collaboration.

In the case of mutual researcher visits between Finland and China, the visiting scientist will cover international flights and the host will provide the local accommodation together with a daily maintenance allowance and domestic travel costs. As the joint research projects are funded in the bilateral or trilateral mode, researcher mobility between the countries should be balanced.

Appendices to the Academy of Finland

Obligatory appendices

The following two obligatory appendices must be drafted in accordance with the international call for applications:

- specific Finnish-German-Chinese application form (in English)
- joint proposal including the following information (in English):

- cover page with the name and address of the project coordinator, followed by the names and addresses of all sub-project leaders
- joint project summary (max. 1 page, 12 pt and 1.5 line spacing)
- free-form short project summary (15 lines)
- joint research plan with a general description of the project including scope, topic, relevance, overall approach, structure of the cooperation and synergy for the collaborative project as a whole (max.12 pages, 12 pt and 1.5 line spacing).
- for each sub-project, a detailed description of the work plan to be carried out by the respective national research team, and a detailed financial plan of the sub-project (max. 6 pages/sub-project, 12 pt and 1.5 line spacing).
- overall financial plan for the joint application (max. 2 pages)
- description of how results will be disseminated (max.1 page, 12 pt and 1.5 line spacing)
- annex with short curricula vitae for each sub-project leader (max. 2 pages, including 10 selected publications).

Case-specific appendices:

- invitation from foreign university or research institute, if the research or part of it will be conducted abroad
- statement by an ethics committee or the Committee on Animal Experimentation (if relevant). The ethical aspects shall always be specified in the research plan.
- statement by a Strategic Centre for Science, Technology and Innovation, if relevant, confirming that the applicant's project is affiliated with the Strategic Centre and justifying the significance of the project for the Strategic Centre's operations
- progress report on all Academy-funded research projects headed by the applicant that have not submitted final reports.

Only the requested appendices are appended to the application. The obligatory appendices must be drafted in accordance with the guidelines of the international call for applications, see www.aka.fi/immunology2011. The case-specific appendices shall be drafted in accordance with the Academy's guidelines, see [> For researchers > How to apply > Appendices](http://www.aka.fi/eng). The obligatory and case-specific appendices are appended to the application in the online services under "Appendices". The only exception is the Finnish applicant's curriculum vitae that is appended under "Personal data/CV".

How to apply

The deadline differs from the Academy's normal deadlines. The deadline for applications addressed to the Academy of Finland is **10 June 2011 at 16.15**. The deadline is non-negotiable.

The German and Chinese partners apply for funding from their national funding organisations in accordance with their respective practices.

In this call, the full cost model is applied to the calculation of the costs of the Finnish research project. Applications shall be written so as to ensure that the Academy's contribution to funding comes to no more than 80% of the estimated total costs of the Finnish project. See the guidelines on how to enter the costs in the application on the Academy's website at [> For researchers > How to apply > Full cost model](http://www.aka.fi/eng).

Applications are drafted at [> For researchers > Log in to online services](http://www.aka.fi/eng). Log in and select *New application > Immunology, DFG and NSFC*.

More information

Academy of Finland

- Programme Manager Mika Tirronen, tel. +358 40 702 7462
- Science Adviser Heikki Vilén, tel. +358 40 518 8932

DFG

- Andreas Strecker, PhD, Program Director, German Research Foundation (DFG), tel. +49 (228) 885-2567, email: [andreas.strecker\(at\)dfg.de](mailto:andreas.strecker(at)dfg.de)

NSFC

- Lu Rongkai, Deputy Director General, NSFC, tel. +86 10 623 25351, email: [lurk\(at\)nsfc.gov.cn](mailto:lurk(at)nsfc.gov.cn)

2 RESEARCHER

In the September 2011 call, applications will be invited for personal funding (research posts as Postdoctoral Researcher, Academy Research Fellow, Academy Professor and clinical researcher) and for mobility grants based on international agreements. More information on the autumn call is available in this call for applications under “Advance information on calls”.

The funding opportunities are presented on the Academy’s website at [> For researchers > Funding opportunities > Funding instruments.](http://www.aka.fi/eng)

3 RESEARCH ENVIRONMENT

In April 2011, there are no calls open targeted at research environments. The Finland Distinguished Professor Programme (FiDiPro) call will open in September, see section “Advance information on calls”.

The funding opportunities are presented on the Academy’s website at [> For researchers > Funding opportunities > Funding instruments.](http://www.aka.fi/eng)

4 ADVANCE INFORMATION ON CALLS

4.1 Academy's autumn call open in September

The Academy's next application round proper is in September 2011. The September call for applications will be published on the Academy's website in late August at the latest and applications can be submitted in the online services during 6–30 September 2011 (preliminary information).

This advance information is tentative. Information on calls open for application will be provided on the Academy's website at [> For researchers > Open for application.](http://www.aka.fi/eng)

At the beginning of September 2011, the Academy of Finland will move from Sörnäinen, Helsinki. The new address is Hakaniemenranta 6, Helsinki. Unfortunately, we cannot fully guarantee an uninterrupted service by telephone and email during the move.

In September 2011, funding is available for e.g. the following purposes:

RESEARCH

Academy Projects, all research fields

Targeted Academy Projects

Sustainable economy

More information

- Science Adviser Kyösti Lempa, Biosciences and Environment Research Unit, tel. +358 40 184 0190
- Science Adviser Kustaa Multamäki, Culture and Society Research Unit, tel. +358 40 180 1711

Wireless data transfer

More information

- Science Adviser Tuukka Lehtiniemi, Natural Science and Engineering Research Unit, tel.+358 40 159 1396

Call for joint projects, Finland and Japan (Academy of Finland and JSPS)

More information:

- Science Adviser Ulla Ellmén, International Relations Unit, tel. +358 40 180 4723

Call for joint projects, Finland and Japan (Academy of Finland, Tekes and JST)

More information:

- Science Adviser Ulla Ellmén, International Relations Unit, tel. +358 40 180 4723

Academy research programmes

Sustainable Management of Aquatic Resources (AKVA), letters of intent

More information

- Programme Manager Paavo-Petri Ahonen, Programme Unit, tel. +358 40 189 6233

Programmable Materials (OMA), letters of intent

More information

- Programme Manager Anssi Mälkki, Programme Unit, tel. +358 40 702 7921
- Programme Manager Saila Karvinen, Programme Unit, tel. +358 40 591 3518

Computational Science (LASTU), second-stage call for projects going through in the April 2011 call for letters of intent

More information

- Programme Manager Anssi Mälkki, Programme Unit, tel. +358 40 702 7921

RESEARCHER**Academy Professors****Academy Research Fellows****Postdoctoral Researchers****Special funding to researchers:**

Clinical researchers

International mobility of researchers based on bilateral agreements:

- Mobility funding (China incl. Taiwan, Estonia, Germany, Hungary, India, Japan, and Russia)
- JSPS Fellowship to Japan
- CAS Fellowship to China

RESEARCH ENVIRONMENT**Finland Distinguished Professor Programme (FiDiPro), letters of intent**

More information

- Senior Science Adviser Hannele Kurki, Culture and Society Research Unit, tel.+358 40 777 0934

4.2 Advance information on ERC calls**ERC Starting Independent Researcher Grants and Advanced Investigators Grants**

The European Research Council (ERC) will open a call for **Starting Independent Researcher Grants** in summer 2011. The call for **Advanced Investigator Grants** will open in autumn 2011. Applications can be submitted in all fields of research.

The deadlines differ between various research fields. More information and detailed application guidelines are available on the ERC website at <http://erc.europa.eu>.

Academy of Finland support to researchers successful in ERC calls

The Academy may target funding to researchers who have done well in ERC calls but not been granted funding. Academy funding is intended to reinforce the international competitiveness of the researchers and the projects they are heading. Eligibility to receive this type of funding requires participation in the next possible ERC call.

More information

- Science Adviser Maiju Gyran, Programme Unit, tel. +358 40 196 2729

This call for applications is based on a document on the criteria for research funding decisions, annually approved, and adjusted when relevant, by the Board of the Academy of Finland. The document is available on the Academy's website at www.aka.fi/eng > For researchers > Funding decisions > [General decision criteria](#).

The document approved on 6 April 2010 (Criteria for research funding decisions 2010–2011) will be applied to the calls opened in April 2011.

APPENDIX 1: Approximate monthly grants in 2010–2011

Recommended monthly grant payable for researcher training and research abroad and for funding researcher mobility

COUNTRY OR REGION	Researchers not receiving any grant or salary	Researchers receiving grant or partial salary	Researchers receiving full salary
Bulgaria	€1,500	€900–1,500	€500–800
Czech Republic	”	”	”
Estonia	”	”	”
Hungary	”	”	”
Latvia	”	”	”
Lithuania	”	”	”
Poland	”	”	”
Romania	”	”	”
Slovakia	”	”	”
Slovenia	”	”	”
Argentina	€1,700	€1,100–1,700	€700–1,000

Australia	”	”	”
Belarus	”	”	”
Brazil	”	”	”
Canada	”	”	”
Chile	”	”	”
China	”	”	”
Egypt	”	”	”
Germany	”	”	”
India	”	”	”
Italy	”	”	”
Russia (excl. Moscow)	”	”	”
Taiwan	”	”	”
Ukraine	”	”	”
Belgium	€2,300	€1,600–2,000	€900–1,400
France	”	”	”
Netherlands	”	”	”
Nordic countries	”	”	”
Switzerland	”	”	”
USA	”	”	”
Great Britain	€2,800	€1,900–2,700	€1,300–1,700
Japan	”	”	”
Republic of Korea	”	”	”
Russia (Moscow)	”	”	”
Other countries	€800–2,300	€400–1,700	€0–1,000

In determining the grant, the full grant may be increased by:

- 15% if the researcher holds a doctorate and receives no other salary or fee
- 20% if the researcher has minor dependants
- a maximum of 20% if the local cost of living is exceptionally high and the researcher receives no other salary or fee.

Exceptional fluctuations in currency exchange rates may be taken into account in determining the grant.

The grants awarded take into account the grant recipient's obligation to take out pension, accident and life insurance. For more information see the insurance for recipients of grants and scholarships at Mela website at www.mela.fi > Recipients of grants and scholarships.

As a result of the Universities Act that entered into force on 1 January 2010, Finnish universities are no longer treated as public corporations in income taxation. This applies both to universities under public law and to foundation universities. This means that grants paid at universities (incl. grants abroad invoiced based on the Academy's funding decision) normally count as taxable income for the grant recipient provided that their amount exceeds the annual amount of the State Grant for Artists. The Academy recommends that the site of research – before the grant decision is made – consult the tax administration concerning any tax consequences possibly arising from the payment of the grant.

In 2011, the annual amount of the State Grant for Artists is €18,805.44 (for more details, see www.taiteenkeskustoimikunta.fi > FAQ > Guidelines for grant applicants).

More information on, for example, taxation of grants abroad is available in the Tax Administration's Memorandum of 27 Jan 2010, New Universities Act and international situations (in Finnish or Swedish) at www.vero.fi/artikkeli/9236.

APPENDIX 2: Grants in 2010–2011 for foreign researchers working in Finland

Recommended grant payable to foreign researchers working in Finland

Short-term visits:

Grants with compensation for accommodation €60–190/day (including a personal grant of €35 and a maximum compensation for accommodation of €155)

Visits lasting longer than one month, including compensation for accommodation:

Master's degree or corresponding	€1,500–1,700/month
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PhD or corresponding	€1,700–2,400/month
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Professor	€2,400–4,000/month
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A particularly outstanding visiting professor may be awarded a larger grant than indicated here.

The grants awarded take into account the grant recipient's obligation to take out pension, accident and life insurance. For more information see the insurance for recipients of grants and scholarships at Mela website at www.mela.fi > Recipients of grants and scholarships.

The Academy recommends that the site of research – before the grant decision is made – consult the tax administration concerning any tax consequences possibly arising from the payment of the grant.

APPENDIX 3: Academy of Finland classification of research fields

It is important that not only the relevant category from the classification of research fields but also free-text keywords describing the research and research methods are entered in the application form.

Research field		Subfield	
No	Name	No	Name
101	Architecture	1011	Architecture
		1012	Community planning
102	Food engineering		
103	Energy engineering	1031	Bioenergy research
		1032	Fuel cells, solar energy
		1033	Combustion technology
		1034	Electric power engineering
		1035	Nuclear engineering: fission and fusion
104	Physics	1041	Atomic and molecular physics
		1042	Biological and soft matter physics
		1043	Fluid and plasma physics
		1044	Particle and nuclear physics
		1045	Optics, acoustics
		1046	Condensed matter physics
105	Geosciences	1051	Space physics
		1052	Geophysics and -chemistry
		1053	Geoinformatics
		1054	Geology
		1055	Geography
		1056	Meteorology and atmospheric sciences, climate research
106	Chemistry	1061	Analytical chemistry
		1062	Inorganic chemistry
		1063	Physical chemistry
		1064	Organic chemistry
		1065	Polymer chemistry
107	Mechanical engineering and manufacturing technology		
108	Computational science		
109	Medical engineering		
110	Mathematics	1101	Pure mathematics
		1102	Applied mathematics
111	Materials science and technology	1111	Biomaterials
		1112	Functional materials, semiconductors
		1113	Ceramic materials
		1114	Metals

		1115	Polymer materials
		1116	Wood and paper materials
112	Nanoscience and nanotechnology		
113	Process technology	1131	Biomass refinery technology
		1132	Instrumentation engineering
		1133	Process control and control engineering
		1134	Technical chemistry
114	Construction and municipal engineering	1141	Geotechnical engineering
		1142	Construction engineering
		1143	Construction economics
		1144	Municipal engineering
115	Electrical engineering and electronics	1151	Automation and systems technology
		1152	Electronics
		1153	Signal processing
		1154	Electrical engineering
		1155	Computer engineering, computer architecture
		1156	Communications engineering
116	Industrial biotechnology	1161	Biocatalysis
		1162	Bioprocess engineering
		1163	Fermentation
117	Computer science	1171	Computational data analysis
		1172	Software engineering, operating systems, man-computer interaction
		1173	Theoretical computer science
		1174	Information systems science
118	Statistics		
119	Industrial management		
120	Astronomy	1201	Solar, stellar and interstellar matter physics
		1202	Solar system physics and planetary science
		1203	The Milky Way, galaxies and cosmology
121	Environmental engineering	1211	Mining and minerals engineering
		1212	Remote sensing
		1213	Marine technology
		1214	Industrial processes

201	Biochemistry, biophysics		
202	Ecology, evolutionary biology and ecophysiology		
203	Plant biology		
204	Developmental biology and physiology		

205	Microbiology		
206	Genetics		
207	Cell and molecular biology		
208	Systems biology, bioinformatics		
209	Environmental science	2091	Ecotoxicology and environmental impacts
		2092	Environmental research

301	Food sciences		
302	Agricultural sciences		
303	Forest sciences		

401	Biomedicine		
402	Veterinary medicine		
403	Pharmacy		
404	Dental science		
405	Nursing science		
406	Public health research		
407	Clinical medicine		
408	Sport sciences		
409	Nutrition		
410	Environmental health research		

501	Neuroscience	5011	Molecular and cell neuroscience
		5012	Systemic and cognitive neuroscience

601	Human geography	6011	Economic geography, regional development and tourism research
		6012	Social and cultural geography, urban studies, regional studies
602	Economics		
603	Education	6031	Adult education
		6032	Vocational education research
		6033	Special education
		6034	Education evaluation
		6035	Early childhood education and preschool education
		6036	General education and teacher education
604	Development research		
605	Business economics		
606	Women and gender studies		
607	Law		
608	Psychology	6081	Developmental psychology, educational psychology
		6082	Psychotherapy

		6083	Health psychology
		6084	Work and organisational psychology
609	Social sciences	6091	Anthropology and ethnology
		6092	Social psychology
		6093	Sociology, demography
		6094	Social policy, social work
610	Science studies		
611	Political science	6111	Public administration
		6112	International relations
		6113	Politology
612	Communication	6121	Informatics
		6122	Journalism
		6123	Library and information science
		6124	Speech communication, organisational communication
		6125	Media and communication research
613	Environmental social science research		

701	Philosophy	7011	History of philosophy
		7012	Practical philosophy
		7013	Theoretical philosophy
		7014	Philosophy of science and methodology
702	History and archaeology	7021	Archaeology
		7022	History
703	Linguistics	7031	Phonetics
		7032	Language, society and culture
		7033	Applied linguistics
		7034	Individual languages and language regions
		7035	General linguistics
704	Literature research		
705	Design research	7051	Artistic design
		7052	Industrial design
706	Art research	7061	Film and television research
		7062	Aesthetics
		7063	Folklore studies
		7064	Musicology
		7065	Semiotics
		7066	Art research, art history, architecture
		7067	Theatre research, dramaturgy
707	Theology	7071	Exegetics
		7072	Church history
		7073	Church sociology

		7074	Practical theology
		7075	Systematic theology
		7076	Comparative religion

More information:

www.aka.fi/en-GB/A/For-researchers/How-to-apply/Guidelines/Research-field-classification/

29.3.2011