

UNIVERSITY OF JYVÄSKYLÄ RESEARCH, INNOVATION
AND INFRASTRUCTURE POLICY 2017–2022



UNIVERSITY OF JYVÄSKYLÄ

Approved at the University Board meeting of 16 May 2017

Strategic planning of research

The University of Jyväskylä's strategy for 2015–2020 and its operational agenda also include a research strategy for 2017–2020. The Research, Innovation and Infrastructure Policy outlines research prerequisites, leadership and openness, research infrastructures, research funding, support and innovation activities. The implementation of the policy is specified in an action plan.

Management of research

The University's strategy, this policy, the research strategies of faculties/departments and the research plans of research groups provide the foundation for managing research at various levels.

The management of research at the University level: The Rector is responsible for the management of research and the development of a research strategy at the University in cooperation with the vice rector responsible for research. The Rector may delegate University-level responsibilities related to the management of research to the vice rector. They are assisted in this task by the Science Council and the personnel assigned to the promotion of research activities.

The management of research at the faculty and departmental levels: The University defines the central core fields of research, the fields of research profiling, and emerging fields in the University Strategy and its Operational Agenda, and units specify their research in their own research strategies. The dean / head of department ensures that the faculty/department has a research strategy, which is updated at least every four years, and that the unit develops research activities according to the strategy. Training on the strategic management of research is organised for deans and department heads, and training and support in project management is organised for the leaders of research groups.

The faculties ensure that the core fields, emerging fields and fields of research profiling defined in the University strategy have sufficiently broad and focused research clusters with named leaders. Research groups have their own leaders.

Principles of research

The University of Jyväskylä is committed to follow the responsible conduct of research and ethical principles of research, as well as national legislation related to them.

Open science and research promote open operating models in scientific research at the University. Open access to research results and research data is a basic requirement of modern science. A central goal, within the limits set by research ethics and the judicial operating environment, is to publish research results, research data and research methods so that they are freely accessible and usable. The University follows the national and international requirements of open science and research, acknowledging the requirements of innovation activity and data protection.

The University also supports inter- and multidisciplinary research. In multidisciplinary research projects, research costs are shared among the participating faculties/departments. The distribution is based on an agreement made in the project preparation phase.

The University of Jyväskylä follows the principle of freedom of research.

Research staff

Research staff is a key resource for the University. According to the University strategy, research and teaching strengthen each other. This is best achieved when employees both teach and conduct research at different stages of their research career.

Research groups include researchers at different career stages and possibly research support staff. Research support services and systems support the preparation, management and implementation of research projects. They are developed to better serve the needs of research and research management so that researchers can focus on research instead of administrative tasks.

The University uses a research career model, and the recruitment of research staff is, as a rule, international at all stages of the model. With international recruitment, the University seeks out promising young researchers as well as experienced and distinguished ones, offering them attractive working conditions. The University helps the staff recruited from abroad to integrate into the University community and Finnish society. In addition, if professors or associate professors recruited from outside of the University need support in establishing their own research groups, they may apply for support from the University.

Retired professors, senior researchers, senior lecturers and other researchers in corresponding positions may be granted the status of temporary emeritus/emerita, or a similar status, based on an agreement.

The University of Jyväskylä Graduate School for Doctoral Studies is in charge of doctoral training at the University in accordance with the operating principles approved by the University Board and the Graduate School Steering Board's recommendations that supplement the principles. The University ensures sufficient resources for the coordination of the Graduate School and doctoral schools. The doctoral schools of faculties utilise the University's internationally recognised research clusters. The University of Jyväskylä Graduate School supports the internationalisation of doctoral programmes by, for example, paying the fourth-year salary of doctoral students in international programmes with three-year funding (e.g. ITN or Marie Skłodowska-Curie Actions).

Researcher mobility

Significant world-class research attracts top international researchers to the University of Jyväskylä and enables young researchers graduated from the University to advance their careers at foreign universities. The University encourages new doctoral graduate to apply for postdoctoral researcher positions at other universities and research institutes.

To promote the mobility of researchers and doctoral students, the University offers funding for research visits abroad on the basis of applications evaluated by the Science Council. Preconditions for the funding are a high-quality research plan and a commitment by the scientific contact person to cooperation during the visit.

The faculties and departments provide non-Finnish professors (and Finnish professors working abroad) with the opportunity to spend a research period at the University of Jyväskylä. The annual aim is to have several foreign professors spend a research period (e.g. 6 months) at the University of Jyväskylä with the status of *visiting professor* or *visiting junior professor*.

Research periods

The purpose of the research period system is to promote international research cooperation, increase the scientific visibility of research, and provide researchers with the opportunity to fully concentrate on research. Professors, senior researchers and senior lecturers who are active in research may apply for a research period, during which they are exempt from teaching and administrative duties. They should not participate in these duties during the research period. The objectives and length of the period are defined in the work plan.

The general principle in funding the research periods is that the faculty/department pays half of the researcher's salary, and the other half is paid with supplementary funding or separate funding paid from the general funds of the University. The University arranges an annual internal application round for its research periods. The Science Council evaluates the applications. Active research work and international collaboration are prerequisites for the funding. The faculty/department may also finance the whole research period.

Infrastructures

Research infrastructure refers to research equipment, devices, data communications networks, databases, materials and services that enable research. Modern infrastructures are an essential part of state-of-the-art research. The University of Jyväskylä builds and maintains internationally significant research environments, which attract international top researchers. The University's Open Science Centre, ICT services and relevant research facilities are important parts of research infrastructure.

The research environments of the University are available for all disciplines and, when possible, for national and international stakeholders. The costs for using the research infrastructures are specified in the action plan of this Research, Innovation and Infrastructure Policy.

Infrastructure investments are an integral part of the University's planning and performance negotiation system. The University's infrastructures are developed and maintained in accordance with the requirements of world-class research. Research infrastructures are assessed regularly based on the investment plans of faculties.

The University maintains an equipment and research data register, which is visible on the website for the University community and stakeholders. The register includes information on the equipment and terms and conditions for using the research data. Faculties and departments are responsible for ensuring that the information about their equipment and research data is up to date. Based on the register data, the University monitors the life cycle and renewal requirements of infrastructures.

Significant research infrastructures are described in a uniform way. The descriptions are used in research funding applications and data management plans as well as for promoting the shared

use of infrastructures. In addition, the University develops its systems, for example, the research information system, and offers training to facilitate the utilisation of materials and project management. The recording and group work facilities offered by the University comply with the data security requirements.

National and international funding programmes are utilised in full in the acquisition of large-scale infrastructures. A separate funding allotment is reserved in the yearly University budget for the acquisition and maintenance of large-scale infrastructures. Faculties ensure that the University has sufficient personnel resources and expertise for using the infrastructures. Faculties are also responsible for maintaining and renewing research infrastructures as well as for keeping them updated.

In addition to separate infrastructure funding, the University funding model ensures sufficient funding for faculties to cover smaller infrastructure acquisitions and their life cycle costs. The deans ensure that a sufficient amount of the funding received by faculties is spent on infrastructures and their maintenance.

The University is also active in the utilisation of regional, national and international research infrastructures relevant for its research, as well as in the development of research environments.

Data management

The University of Jyväskylä creates detailed instructions for implementing the principles for the management and further use of research data in practice. The University also supports the continuity of research groups' activities by offering support, for example, for the storage and maintenance of data (also after the completion of individual projects).

For research projects financed with supplementary funding, the University offers uniform, centralised and separately defined basic services for the research group's work, research data storage and the publishing of research results (including self-archiving). The pricing principles of services that exceed the basic level are clear and available when creating funding applications. All research projects that receive supplementary funding and use basic services must have a research data management plan.

Research financing

Budget funding

The University supports research with its internal funding model and doctoral training with separately awarded funding. When establishing new areas of research, preparations must be made for the longevity of funding (at least 3+3 years).

Supplementary funding

The University's strategic target is to increase the share of supplementary funding, especially from abroad, in its overall funding. Research and Innovation Services support individual researchers and research groups in the creation of applications and ensure that applications submitted from the University are of a high quality. In addition, faculties and departments offer their own forms of support for researchers applying for supplementary funding.

The University promotes the visibility of its research support services through a portal that brings together all the services offered for project application, implementation and completion phases.

Activity and success in acquiring supplementary research funding are also taken into account in staff incentives.

Publication activity and research visibility

Faculties/departments encourage researchers to publish research results both in channels of significant impact, classified as channels of top level in the Finnish Publication Forum. In applicable fields, the University also looks to promote publishing in Finnish and help Finnish develop as a language of science.

The University requires that all research publications are self-archived in the University's publication archive. The Open Science Centre defines the level of openness for self-archived publications. The self-archiving of all research publications in the publication archive is a precondition for the long-term preservation and continuous assessment of research activity at the University.

The University encourages publishing in open publication series in the fields of science that have distinguished open publication series. It is not recommended to purchase open access rights for individual articles, unless the financier of the research specifically so requires.

Research results are also presented outside of the academic world. The University organises training on promoting the general impact of research. Assisted by University Communications, research groups and researchers must disseminate information about significant research results. Researchers are recommended to present and popularise their research results for the general public and operators in various fields.

The significance of the most important scientific results is presented on the University's website. The website is developed to serve the publication of research results and their general impact to both the science community and the general public.

Administrative support for research

Research and Innovation Services centralise their operations in order to increase international funding, particularly from the EU and ERC, at the University of Jyväskylä as well as support the applications for national funding. The University ensures sufficient resources for these operations. Research and innovation activity is supported by appropriate contracted services.

Innovation activity

Active efforts to make research results utilisable are an essential form of societal impact for the University. The goal is to support research-based business activities and more efficiently adapt social and technological innovations for the use of society. University Services provides services that support innovation activity. In addition, Unifund Jyväskylä, the funding company established by the University of Jyväskylä, invests in companies originating from the University in

accordance with its funding criteria. The principles of ownership and commercialisation of research results are defined in a separate Rector's decision.

Assessment and follow-up

The University Board will monitor the implementation and impact of this programme. The Science Council will annually evaluate the state of research and the functioning and progress of established and emerging strong areas in research.