
SRC programme calls 2016: list of selected consortia

Skilled Employees – Successful Labour Market

Working life is in a state of global flux. Employment and career trajectories are inevitably being affected by robotisation, digitalisation, employees' changing knowledge and skill sets, etc. Traditional education and degree structures are no longer optimally suited to the changing conditions, but there is a need for new and more flexible ways of learning and adopting new ideas that cut across all stages of life. Research under this theme should respond to the challenges faced by educational institutions. Furthermore, it should provide concrete solutions for identifying and advancing the adoption of skills that will be needed in the future workplace so that skills and competencies match job requirements. The aim is to find ways in which the best existing research can be put to use in making the most of education, learning environments and skills as well as in anticipating the need for new skills and future occupations.

The permanent change in the labour market will also demand an examination of the need for institutional reform, for instance in labour market regulation and immigration policy. Furthermore, research under this theme helps shed light on the role of Finnish growth companies in the development of new skills and competencies and identifies the most critical success factors for these companies. Research under this theme should be able to present concrete ways in which the skills required in the future workplace can be identified and the assimilation of these skills can be promoted.

Skills, education and the future of work

Roope Uusitalo, University of Jyväskylä, *consortium PI*
Minna Hiillos, Haaga-Helia polytechnic
Markku Jahnuainen, University of Helsinki
Hannu-Matti Järvinen, Tampere University of Technology
Mika Kortelainen, VATT Institute for Economic Research
Tuomas Kosonen, Labour Institute for Economic Research
Salla Toppinen-Tanner, Finnish Institute of Occupational Health

Smart work in a platform economy

Anne Kovalainen, University of Turku, *consortium PI*
Mervi Hasu, Finnish Institute of Occupational Health
Petri Rouvinen, Research Institute of the Finnish Economy

Occupational restructuring challenges competencies

Rita Asplund, Research Institute of the Finnish Economy, *consortium PI*
Antti Kauhanen, Research Institute of the Finnish Economy
Osmo Kivinen, University of Turku
Eira Viikari-Juntura, Finnish Institute of Occupational Health

Competent workforce for the future

Ilmo Keskimäki, Institute for Health and Welfare, *consortium PI*
Tarja Heponiemi, Institute for Health and Welfare
Soile Juujärvi, Laurea polytechnic
Sari Kujala, Aalto University
Vuokko Niiranen, University of Eastern Finland
Timo Sinervo, Institute for Health and Welfare

Health, Welfare and Lifestyles

Research under this theme shall give special attention to mechanisms that, drawing on the results of scientific research over the past decades, can bring about permanent changes in people's behaviour. There is an abundance of information about health and wellbeing, but people in Finland are not following experts' lifestyle recommendations. There is also an abundance of knowledge about lifestyles that promote health and wellbeing, but that knowledge is not put to good enough use. A central concern under this theme is to identify different types of groups and their special interests and motivating factors. It is essential to consider the international context and cooperation: What successes have other countries had in the area of health and wellbeing, what lessons have been learned and what could be transferred or applied to Finland?

Research under this theme shall provide more information on how resources could be transferred from the treatment to the prevention of diseases. Research is needed so that information about health and wellbeing can be tailored in such a way that it better reaches and motivates different groups. The aim is to ensure that the information provided is taken on board and that it translates into health and wellbeing at all stages of the life cycle. In addition, the research can tackle questions related to the role and responsibilities of authorities. What impact do different instruments of influence and different solutions have, and what is their social acceptability? How can individuals be sustainably encouraged to take greater responsibility for their own health?

STOP DIABETES – knowledge-based solutions

Jussi Pihlajamäki, University of Eastern Finland, *consortium PI*

Pilvikki Absetz, University of Eastern Finland

Jaana Lindström, Institute for Health and Welfare

Kaisa Poutanen, VTT Technical Research Centre of Finland Ltd

Evidence-based health promotion @work

Jaana Laitinen, Finnish Institute of Occupational Health, *consortium PI*

Kirsi Heikkilä-Tammi, University of Tampere

Antti Matti Juhani Muhos, University of Oulu

Harri Oinas-Kukkonen, University of Oulu

Johanna Ruusuvuori, University of Tampere

Stephanie Stock, University of Cologne

Inclusive promotion of health and wellbeing

Marja Vaarama, University of Eastern Finland, *consortium PI*

Pekka Rissanen, University of Tampere

Sanna Aaltonen, Finnish Youth Research Society

Kati Närhi, University of Jyväskylä

Antti Samuli Syväjärvi, University of Lapland

Tarmo Valkonen, Research Institute of the Finnish Economy

Transferring child and adolescent mental health treatment to awareness, prevention and early intervention

Leif Andre Sourander, University of Turku, *consortium PI*

Eila Kankaanpää, University of Eastern Finland

Marja Kankaanranta, University of Jyväskylä

Patrick McGrath, IWK Health Centre

Security in a Networked World

In today's networked world, states are increasingly interconnected and interdependent not only in the realm of the economy, but also crisis management and security. It follows from this interdependence that in all states, including Finland, internal security and external security are inseparably interwoven.

Research under this theme will support efforts to monitor, analyse and predict changes taking place in the security environment and to recognise and respond to new types of security risks. The information gained from this research will strengthen the capacity of the state to perform its core functions, such as securing the existence and operational integrity of the state, enhancing citizens' security and sense of security, and understanding global security and geopolitical changes (incl. new types of threats related to information networks, information dissemination, cyber security, extremist groups and radicalisation, or pandemics).

The main areas of research focus are the overall security and operational integrity of Finnish society and its ability to tolerate and respond to risks. A major focus is on national security of supply in our energy- and knowledge-intensive, digitalising and globalising society. Other key areas of interest include the interaction between internal and external security, citizens' experiences of insecurity at different stages of the life cycle, changing values and attitudes, and the impact of these changes on the development of national identity, unanimity and democracy.

Multilayered borders of global security

James Scott, University of Eastern Finland, *consortium PI*

Laura Assmuth, University of Eastern Finland

Minna Jokela, The Finnish Border Guard

Pauli Kettunen, University of Helsinki

Anssi Paasi, University of Oulu

From Failand to Winland

Olli Varis, Aalto University, *consortium PI*

Burkhard Aufferman, University of Turku

Antti Tuomas Belinskij, University of Eastern Finland

Outi Kuittinen, Demos Helsinki

Mika Marttunen, Finnish Environment Institute

Juha Mäkinen, National Defence University

Sanna Syri, Aalto University

Veli-Pekka Tynkkynen, University of Helsinki

Urbanising Society

Urbanisation has advanced at great pace in Finland. Even so, we continue to lag behind other Western European countries. Finland has the advantage of coming from behind. We can look at how urbanisation has advanced in other countries and put this information to good use in our own processes of urbanisation. Research under this theme needs to solve questions such as how cities can respond to residents' needs, what adds to the appeal and competitiveness of cities, how cities support innovations, and how functional labour markets are created in cities. It is also important to find ways in which the strengthening of cities can contribute to enhancing the vitality of surrounding regions.

Research under this theme will be aimed at increasing understanding of urbanisation and its impacts on the interaction between cities and regions and on the vitality of regions. The research approaches include, for example, digitalisation and resource efficiency. Information and solutions are needed about how to promote health and wellbeing, and about how urbanisation is affected by community planning, planning and land use policy, housing policy, taxation and industrial and commercial policy. Research can shed light on the impacts of urbanisation on how and where people will live in the future, on where the various functions of society should be located, on how mobility and transport should be arranged, on how social and health problems and opportunities will change, on how energy will be produced, on what kinds of resources will be available (e.g. quality of air, access to clean water, and food), and so on. Research is needed to explore the characteristics of centralised and decentralised community structures from different perspectives, specifically from the point of view of energy production and consumption, different industries, security of supply and self-sufficiency. Furthermore, research is needed into how the changing demography, the diversification of households and lifestyles, the growth of multi-place living, internationalisation and differences in people's values and practices influence the development of cities.

Urbanisation, mobilities and immigration

Jussi Jauhiainen, University of Turku, *consortium PI*
Aleksi Neuvonen, Demos Helsinki
Marko Peter Joas, Åbo Akademi University
Timo Kauppinen, Institute for Health and Welfare
Panu Lehtovuori, Tampere University of Technology
Tuomas Martikainen, Institute of Migration
Tiit Tammaru, University of Tartu

Beyond MALPE coordination: integrative envisioning

Raine Mäntysalo, Aalto University, *consortium PI*
Simin Davoudi, Newcastle University
Juha Honkatukia, VTT Technical Research Centre of Finland Ltd
Jouni Häkli, University of Tampere
Kati-Jasmin Kosonen, Tampere City Region
Kimmo Lapintie, Aalto University
Ari Nissinen, Finnish Environment Institute
Petter Næss, Norwegian University of Life Sciences
Joseph Ravetz, University of Manchester
Maria Ritola, Demos Helsinki
Hannu Tervo, University of Jyväskylä
Jarmo Vakkuri, University of Tampere

Dwellers in agile cities

Helena Leino, University of Tampere, *consortium PI*
Markku Hedman, Tampere University of Technology
Mikael Hildén, Finnish Environment Institute
Liisa Häikiö, University of Tampere
Markus Laine, University of Tampere
Nina Wessberg, VTT Technical Research Centre of Finland Ltd

A Climate-Neutral and Resource-Scarce Finland – supplementary call

The SRC programme A Climate-Neutral and Resource-Scarce Finland provides funding to research into the circular economy, which includes efficient recycling of renewable and nonrenewable natural resources and making full use of material and energy flows. A goal of the programme is to find ways to ensure that businesses, employees, the public sector and consumers possess the resources and skills that best promote adaptation to climate change and the transition to a climate-neutral and resource-scarce society. The projects in the programme explore topics such as the Gulf of Bothnia as a resource for sustainable growth, a sustainable, climate-neutral and resource-efficient forest-based bioeconomy, the transition to a resource-efficient and climate-neutral electricity system, and novel protein sources.

Closing the loop for high-added-value materials

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Erja Turunen, VTT Technical Research Centre of Finland Ltd

Jari Koskinen, Aalto University

Minna Lammi, University of Helsinki