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Report on funding-related studies

Abstract:

This case study aims to provide the interested researchers with useful information concerning funding possibilities for research and for academic education. The study was created in pursuance of the ADWICE project which is prepared jointly at Brno University of Technology (Czech Republic) and Vienna University of Technology (Austria). The presented study is based on information from the Internet, printed booklets, as well as authors' experience. Some specific data were gained directly from the respective authorities.

Besides Czech and European funding agencies, special attention is paid also to Austrian and German agencies. Close cooperation with these neighbor countries is based on geographical, historical as well as social reasons. Currently, about 150 000 job opportunities in the Czech Republic are created directly by German companies (according to the Czech-German Chamber of Commerce and Industry). For German language service, two important foreign institutes are located in the Czech Republic, namely Goethe Institute in Prague and Austrian Institute in Brno. Both institutes are licensed to issue German language certificates which are recognized worldwide.

This report has been designed to give interested persons a brief insight into the scope of the major research funding organizations and research institutions suitable for cooperation in specific programs. At a glance, the reader will find here the core data related to the profiles of these institutions. More detailed information as well as the current calls for proposals can be found online at the websites given at the end of each program's description.

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1 Main European Programmes

In order to encourage deep cooperation of European researchers, the European Union (EU) supports establishing working groups of academic institutions and industry companies from different EU countries (at least three countries in a project). The EU provides funding opportunities in all socio-economic sectors via its multi-annual programmes. The current call period spans the years 2014 – 2020.

General project features:

- European projects are focused on multidisciplinary research,
- In most calls, a project covers consortium of institutions as well as a large number of participating workers,
- Typical project budget is relatively high (millions of Euro),
- Many rival applicants compete in each call.

In general, the EU project calls are highly competitive (Horizon 2020 received 45 000 grant applications over just 12 months), the funding rate is about 5%. As a consequence, applicants have to submit not only an excellent proposal, but they also need some luck, for example, that the assigned evaluators to their proposal are not reluctant to give full scores in principle.

1.1 Relevant calls for HORIZON 2020

1.1.1 Who can apply

H2020 is open widely to any researcher/research institution in EU and many other (associated) states. For instance, the European Research Council (ERC) actions are open to researchers (Principal Investigators) of any nationality who intend to conduct their research activity in any Member State or Associated Country. The host institution (Applicant Legal Entity) must engage the Principal Investigator for at least the duration of the project, as defined in the grant agreement. The Applicant Entity must either be established in an EU Member State or Associated Country as a legal entity created under national law, or it may be an International European Interest Organisation (such as CERN, EMBL, etc.), the European Commission's Joint Research Centre (JRC) or any other entity created under EU law. Any type of legal entity, public or private, including universities, research organisations and undertakings can host Principal Investigators and their teams.

1.1.2 Brief characterization

Horizon 2020 (H2020) is the biggest EU research and innovation programme ever with nearly 80 billion Euro of funding available over seven years (2014 to 2020). A proposal is submitted by one or more applicants. An applicant might also be involved in more than one proposal, in which case multiple applications for funding need to be submitted.

Some calls have two stages: applicants first submit outline proposals which are evaluated to select those that could be developed further into full proposals.

The duration of H2020 is divided into so-called work programmes (WPs). As of 2016, WP2016-17 is the current document. Because of the H2020 significance, the structure of the programme is described in the following section.

1.1.3 Structure of the H2020 programme (with additional information)

Excellent Science (mostly but not only fundamental /frontier/ research)

- European Research Council (ERC); Future and Emerging Technologies fundamental research, proof of concept grants for ERC project that proved to be successful. ERC budget is over 13.1 billion Euro. ERC awards frontier research, does not support network or consortia it awards individual participants (Principal Investigator, PI) and their research teams. The scientific excellence (of both the proposal and the PI) is the only selection criteria. There are four types of ERC grants:
 - o **ERC Starting Grants** support of independent career of excellent young scientists having 2-7 years from PhD defence (before fixed date of January 1, 2016) in phase of

- forming their new research teams or programs. Project budget can be up to 1.5 million Euro for five years. Overall budget is above 485 million Euro (expected to be available in 2016).
- ERC Consolidator Grants support of independent career of excellent young scientists having 7-12 years from PhD defence (again before fixed date of January 1, 2016) and having some excellent research behind. Project budget can be up to 2 million Euro for five years. Overall budget is above 605 million Euro (expected for 2016).
- ERC Advanced Grants support of internationally well-recognized researchers already impacting their research area significantly. Project budget can be up to 2.5 million Euro for five years. Overall budget is above 540 million Euro (expected for 2016)
- Proof-of-Concept support of successful participants of ERC grants in phase of precommercialization of research outputs. Project budget can be up to 150 thousand Euro, usually for one year. Overall budget is above 20 million Euro (expected for 2016).
- ERC CZ Czech programme for unsupported ERC projects with result "The proposal is of good quality and fundable but not retained for funding due to budgetary constraints". Overall budget is about 600 million CZK (21 million Euro) over 2012-2019.
- Future and Emerging Technologies (FET) these grants are meant to take advantage of excellent European research infrastructure in order to gain a technology lead by revealing of revolutionary technological opportunities. This program is designed to allow new and risky ideas to be tested or proved. Overall budget is 77 million Euro (expected for 2016) for FET-Open research projects.
- Marie Skłodowska-Curie Actions (MSCA) for researchers' training, mobility and career development, with overall budget 6.2 billion Euro. MSCA supports only international mobility, it cannot be awarded in the researcher's country of residence. The minimum requirement for a participant is to hold an academic degree eligible to enter PhD level. There are five types of grants: Innovative Training Networks (expected 370 million Euro budget for 2016), Individual Fellowships (expected 219 million Euro for 2016), Research and Innovation Staff Exchange (80 million Euro expected for 2016), COFUND (80 million Euro expected for 2016) and European Researchers' Night (8 million Euro expected for 2016).
- European Research Infrastructures, including e-Infrastructures support for feasibility studies and investments (including large infrastructures). Generally, these grants support the aims leading to long-term sustainability of European Research Centres. Overall budget is above 294 million Euro (expected for 2016).

Industrial Leadership (mostly applied research projects)

- Leadership in Enabling and Industrial Technologies (LEIT)
 - Information and Communication Technologies (ICT) including photonics and microand nano-electronics – it should be noted that ICT topics are spread/supported in many other parts of H2020¹. This part, frequently referred to as LEIT-ICT, has six main activity lines, and some cross-cutting topics:
 - A new generation of components and systems,
 - Advanced computing,
 - Future Internet,
 - Content technologies and information management,
 - Robotics
 - Micro- and nano-electronic technologies, Photonics.
 - Cross-cutting topics addressing cyber-security, Internet of Things and research on a Human-centric Digital Age (see below).

 $^{^1\} http://ec.europa.eu/programmes/horizon 2020/sites/horizon 2020/files/ICT\% 20 in \% 20 H2020\% 20 WP 2014-15_0.pdf$

A more detailed description of the activities can be found in the Work Programme (currently the most up-to-date is 2016-2017) of Information and Communication Technologies².

Overall budget of LEIT-ICT is above 762 million Euro (expected for 2016). However, it should be noted that less than 4% of total H2020 LEIT-ICT budget in 2014 was awarded to EU-13 countries (including Czech Republic).

- Space supports development of space capacities of EU in areas of navigation, Earth observing and protection of space infrastructure. The overall budget is above 162 million Euro (expected for 2016).
- Nanotechnologies, Advanced Materials, Advanced Manufacturing and Processing, and Biotechnology (NMBP) – These grants focus on nanotechnologies with goals in areas of market, health-care, sustainable growth, security issues and standardization. The overall budget is above 516 million Euro (expected for 2016).
- Access to risk finance primarily for any business to ease its access to many financial
 instruments, used for risky research and innovative activities. Frequently referred to as
 InnovFin.
- Innovation in Small and Medium Businesses (SMEs) systematic support of development of
 innovative products and services with three phases of financing. One or more applicants are
 possible.

Societal Challenges (SC)

- SC1: Health, Demographic Change and Wellbeing calls focus on understanding health, well-being and diseases, preventing diseases, treating and managing diseases, active ageing and self-management of health, methods and data, health care provision and integrated care, personalized medicine, including ICT areas such as electronic health care e-Health and care provided through mobile devices m-Health, with a wide field of imaging methods and techniques for prevention, early and accurate diagnosis and treatment monitoring and many coordination activities with expected 2016 total budget of 500 million Euro.
- SC2: Food Security, Sustainable Agriculture and Forestry, Marine, Maritime and Inland Water
 Research and the Bioeconomy call focuses on sustainable food security, blue growth –
 demonstrating an ocean of opportunities, rural renaissance, bio-based innovation and other
 actions with expected 2016 total budget of 364 million Euro.
- **SC3: Secure, Clean and Efficient Energy** with many calls covering energy efficiency, low-carbon energy and many other instruments. Expected 2016 total budget of 450 million Euro.
- **SC4: Smart, Green and Integrated Transport** with many calls covering mobility for growth, automated road transport, green vehicles, less congestion, increasing safety and many other instruments. Expected 2016 total budget of 674 million Euro.
- SC5: Climate Action, Environment, Resource Efficiency and Raw Materials with many calls
 covering greening the economy and many other instruments. Expected 2016 total budget of
 385 million Euro.
- SC6: Europe in a Changing World Inclusive, Innovative and Reflective Societies with many calls covering co-creation for growth and inclusion, reversing inequalities and promoting fairness, engaging together globally, understanding Europe and many other instruments. Expected 2016 total budget of 156 million Euro.
- SC7: Secure Societies Protecting Freedom and Security of Europe and its Citizens with many
 calls covering critical infrastructure and borders protection, security (terrorism and organized
 crime) including communication security, digital security focus area (e.g. cyber security) and
 many other instruments. Expected 2016 total budget of 185 million Euro.

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 $^{^2\} http://ec.europa.eu/research/participants/data/ref/h2020/wp/2016_2017/main/h2020-wp1617-leit-ict_en.pdf$

<u>Spreading Excellence and Widening Participation</u> – this instrument covers Teaming (supporting new or existing research centres with help of well-recognized research institution from other country), Twinning (helps to transfer knowledge and best-practices between research institutions), ERA chair (supports hiring excellent scientists at universities and research centres) and Policy Support Facility (helps to prepare and innovate research and innovation policy in member state, supports National Contact Points of H2020). The total budget in 2015 is 93 million Euro.

<u>Euratom</u> – research in the area of nuclear systems with a total expected budget of 60 million Euro (in 2016).

European Institute of Innovation and Technology (EIT) – supports so-called Knowledge and Innovation Communities (KIC) in these areas: Climate, EIT Digital (former ICT Labs), Innoenergy, Raw Materials and Health. In 2016, it is planned to open calls for Food4Future and Added-value manufacturing, in 2018 Urban mobility is the topic of the planned call. EIT has total budget of 2.8 billion Euro in the frame of H2020.

<u>Science with and for Society (SWAFS)</u> – Specific H2020 programme, with the aim to build effective cooperation between science and society, to recruit new talents for science and to pair scientific excellence with social awareness and responsibility; many calls covering science with and for society and many other instruments. The expected total 2016 budget is 54 million Euro.

<u>Cross-cutting activities</u> – in WP2016-17 this covers three cross-cutting calls: Industry 2020 in the Circular Economy, Internet of Things (IoT) and Smart and Sustainable Cities. Expected 2016 total budget of 577 million Euro (including 104 million Euro for IoT, 120 million Euro for Smart Cities).

1.1.4 Necessary partners for project application

Most of the calls require a team of at least three partners (consortium of at least three partners from three different EU countries, where various sectors and kinds of entities are possible), often one party has to act as a coordinator of the project. These projects are referred to as Collaborative projects. These proposals are often in regime of Research and Innovation Action (RIA) or Innovation Action (IA). Note that many proposals have six and more partners.

It is also possible to submit a proposal as an individual researcher, team or organisation. Such opportunities are mainly funded under the H2020 European Research Council (ERC) grants and the Marie Skłodowska-Curie actions (MSCA). Individual SMEs can apply to the H2020 SME instrument.

1.1.5 Acceptance rate

The overall success rate of eligible full proposals was around 14% (in 2014) but only 5% were awarded. This number is expected to rise significantly in 2015. Note that in 2014, 38% of successful applicants were newcomers (not participating in FP7). In case several proposals receive the same score, the following aspects are taken into account: SME budget, gender balance, European Commission priorities and policy objectives.

1.1.6 Timing of calls

H2020 programme has biannual work programmes (WPs) including expected schedule of calls and budget allocations. It is published online in advance (even before being adopted), currently for 2016-17 period³.

H2020 calls are very frequent in general, more than 100 calls were opened during 2014. For most topics, a full proposal needs to be submitted by the applicant with the given deadline (usually one deadline per year for a particular type of proposal). Some calls remain continuously open, such as the SME instrument topics, which

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³ https://ec.europa.eu/programmes/horizon2020/en/draft-work-programmes-2016-17

means a proposal can be submitted at any time. In such case, cut-off dates are specified, meaning that all proposals received up to a given cut-off date will be evaluated subsequently.

There is always a Call page that provides a summary of the common research field or innovation or societal challenge that the topics of this call deal with. It also gives access to all the topics that belong to this call. Calls are further sub-divided into Topics – the proposal must be relevant to one of those. On the Topic page the key documents are available, along with all information needed for proposal preparation. Each topic page specifies the submission deadline and contains a link to the electronic submission system, which is how a proposal is submitted.

The evaluation phase usually takes five months. Successful proposals require three additional months for grant agreement preparation and signature.

1.1.7 Average funding per project

The average funding per project so far was 1.7 million Euro, calculated over the whole H2020 program. The expected budget is often indicated in the topic description.

Universities remain in the first place both in terms of participations and financial contribution received. They are followed by the private sector, research institutions and public bodies.

1.1.8 Co-financing

Co-financing depends on the type of action (funding scheme). Each call and topic has assigned the so-called "Type of Action" category. The following types are available:

- Research & Innovation actions (RIA) The EU funding rate is 100%. This type of action covers activities aiming to establish new knowledge and/or to explore the feasibility of a new or improved technology, product, process, service or solution. For this purpose they may include basic and applied research, technology development and integration, testing and validation on a small-scale prototype in a laboratory or simulated environment. Projects may contain closely connected but limited demonstration or pilot activities aiming to show technical feasibility in a near to operational environment. The page limit for a proposal is 70 pages (applies to the key part of Technical Annex).
- Innovation actions (IA) The EU funding rate is 70% (except for non-profit, which are still funded 100%). This type of action covers activities directly aiming at producing plans and arrangements or designs for new, altered or improved products, processes or services. For this purpose they may include prototyping, testing, demonstrating, piloting, large-scale product validation and market replication. The page limit is 70 pages (applies again for key part of Technical Annex).
- Coordination and Support Action (CSA) covering no actual research. The page limit is 50 pages.

Some particular types of grants:

- Grants of the European Research Council (ERC) to support frontier research have a funding rate of
- Marie Skłodowska-Curie actions (MSCA) also have a funding rate of 100%.

Note that there are also co-funded actions that allow only a 20% or 33% rate of the eligible costs.

1.1.9 Limits of funding

Horizon 2020 calls can have different types of actions (funding schemes). The type of action specifies: the scope of what is funded, the reimbursement rate, specific evaluation criteria to qualify for funding. Note that H2020 does not take into account geographic specificities in allocating funding (transnational approach).

ERC: The Union financial contribution will take the form of the reimbursement of up to 100% of the total eligible and approved direct costs and of flat-rate financing of indirect costs on the basis of 25% of the total eligible direct costs.

1.1.10 Possibilities of funding

It is difficult to sum up this topic over the whole H2020 programme. In general, all common types of expenses (PhD students, salaries, mobility, services, investments and indirect costs) are possible and eligible in H2020 but there may be restrictions depending on the programme.

1.1.11 Official websites

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

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

http://www.h2020.cz/cs

1.2 Horizon 2020 – Marie Skłodowska-Curie

Call: Marie Skłodowska-Curie Actions Innovative Training Networks (MSCA-ITN)

Type of action: European Training Networks (ETN)

1.2.1 Who can apply

European universities together with research institutions.

The members of a project team can be PhD students in full-time study and their supervisors, no age or other limits for individual researchers exist.

1.2.2 Brief characterization

Innovative Training Networks (ITNs) support competitively selected joint research training and/or doctoral programmes, implemented by European partnerships of universities, research institutions, and non-academic organisations. The research training programmes provide experience outside academia, hence developing innovation and employability skills. ITNs include industrial doctorates, in which non-academic organisations have an equal role to universities in respect of the researcher's time and supervision, and joint doctoral degrees delivered by several universities.

ITNs raise excellence and structure research and doctoral training, extending the traditional academic research training setting, incorporating the elements of Open Science and equipping researchers with the right combination of research-related and transferable competences. It will provide enhanced career perspectives in both the academic and non-academic sectors through international, interdisciplinary and inter-sectoral mobility combined with an innovation-oriented mind-set.

Research topics cover all sectors and disciplines. Their project duration usually spans four years, which covers the whole doctoral study period.

1.2.3 Necessary partners for project application

European non-academic organisations, organisations outside Europe can participate as additional partners enabling doctoral training.

1.2.4 Acceptance rate:

8.6% of 1003 proposals submitted as ETN in January 2014, 5.9% of 1320 proposals submitted as ETN in January 2015.

1.2.5 Timing of calls

This type of call is open every year, usually from end of September to middle of January.

1.2.6 Average funding per project:

4.71 million Euro in 2014, 4.74 million Euro in 2015.

1.2.7 Co-financing:

Co-funding by applying institution is not needed and not expected.

1.2.8 Limits of funding:

317 million Euro (budget for the last call). No limits in individual project budgets are set.

1.2.9 Possibilities of funding:

Scholarship for PhD students, salary for academic workers (part-time project employment), mobility, institutional unit cost for management and overheads, no investments.

1.2.10 Official websites:

http://ec.europa.eu/research/participants/portal/desktop/en/opportunities/h2020/topics/2056-msca-itn-2016.html

1.3 COST Actions and identification of gaps

1.3.1 Who can apply

COST Actions (see below) are open to researchers from universities, research centres, large and small, public and private organizations involved in research from the 36 COST Member Countries.

1.3.2 Brief characterization

COST does not fund research itself, but provides support for networking activities carried out within COST Actions. COST Actions are bottom-up science and technology networks open to researchers and stakeholders, with a four-year duration.

COST Actions are active through a range of networking tools, such as meetings, workshops, conferences, training schools, short-term scientific missions (STSMs) and dissemination activities. There are two ways how to participate: Submitting a proposal for a new COST Action and joining an existing COST Action.

Cooperation is possible within COST Member Countries (Austria, Belgium, Bosnia and Herzegovina, Bulgaria, Croatia, Cyprus, Czech Republic, Denmark, Estonia, Finland, France, Germany, Greece, Hungary, Iceland, Ireland, Italy, Latvia, Lithuania, Luxembourg, Malta, Montenegro, The Netherlands, Norway, Poland, Portugal, Romania, Serbia, Slovakia, Slovenia, Spain, Sweden, Switzerland, Turkey, United Kingdom and the former Yugoslav Republic of Macedonia), Israel is a Cooperating State. A cooperation with COST Near Neighbour Countries and COST International Partner Countries is also possible on the basis of ascertained mutual benefit.

The call is open to ideas in all fields of Science and Technology including Humanities and Social Sciences (only peaceful purposes, 15 pages for the Technical Annex, written in English). Multi- and interdisciplinary proposals are encouraged. COST focusses on Excellence and Inclusiveness.

1.3.3 Necessary partners for project application

Minimum participation of five researchers / organizations from five different COST Countries is required.

1.3.4 Acceptance rate

Approximately 50 new COST Actions are awarded annually (10% of proposals).

1.3.5 Timing of calls

The COST Open Call has the annual spring and autumn Collection Dates, when all submitted proposals are gathered and evaluated. The decision for funding a proposal is taken within eight months from the collection date. Successful proposals are approved to become COST Actions and can expect to 'kick-off' within three months thereafter.

1.3.6 Average funding per project

The average COST Action budget depends on the number of COST Countries participating in the Action. Average annual budget is 130 thousand Euro.

The funding is provided via a yearly grant agreement. COST is supported by the EU Framework Programme for Research and Innovation Horizon 2020.

1.3.7 Co-financing

Particular research is nationally funded – it can be considered as co-financing. Co-finance in its true meaning is not required.

1.3.8 Limits of funding

The amount of money to be divided between new actions is described in every opened call. The overall budget is distributed proportionally, based on the number of actions and number of participants or number of states in a particular action.

Only mobility and administration of the project are expenses supported by COST.

1.3.9 Possibilities of funding

- PhD students

No.

- Salaries for academic workers

No.

Mobility

Yes, meetings, conferences, workshops, short-term scientific exchanges, training schools and dissemination activities are supported.

Services

No.

- Investments

No.

1.3.10 Official website

www.cost.eu

2 Nationally Funded Programmes

In most countries, nationally funded programmes cover project funding by national research agencies, national academy of sciences as well as many private foundations. The national institutions receive the large majority of its funds from the government, states and/or regions. The proposals are evaluated usually in a multi-layered decision-making process exclusively according to scientific criteria on the basis of expert review. The final decision is made by a grants committee. The voting system and procedural regulations guarantee science-driven decisions.

General project features:

- national engineering projects are usually focused thematically narrower than European projects,
- participation of more than one institution is possible,
- participation of individual guest researchers from abroad is possible,
- some programmes in each country enable also the support of foreign incoming researchers and students.

2.1 Czech Science Foundation

2.1.1 Who can apply

Natural person, legal entity, organizational unit of a state or organizational unit of self-governing territorial division, the organizational unit of Ministry of Defence and armed forces or organizational unit of Ministry of Interior, involved in research activities. Typically, individuals or teams from research-oriented universities, research centres and the Czech Academy of Sciences can apply. Any cooperation between two or more organizations is allowed, a partnership with industry is generally not financed. A particular applicant is the key person of the proposal, there are no restrictions valid for this position with one exception, junior projects (see below).

2.1.2 Brief characterization

Czech Science Foundation (Grantová agentura České republiky - GAČR) annually calls for proposals falling into four different categories:

- Standard grant projects
- Junior projects
- International Lead Agency
- International Bilateral

Each of these types has the following common characteristics:

- Only fundamental research is supported
- Projects have to be two to three years in duration
- Particular research topic is determined just by the applicant
- Proposals can address research from almost any topic of fundamental research submitted typically to one of 39 evaluation panels. The technical specification is limited to 10 pages (written in English).

Most preferred are standard grant projects (71% of projects in 2014). Junior grants focus on the support of young scientists with excellent research results in order to help them build their own research teams. In order to limit age of the leading researcher of junior grant, an applicant can submit his own proposal only if less than eight years have passed between his PhD defence and the year when the proposal is submitted. International projects with Leading Agency regime are currently opened only with Austria's Fonds zur Förderung der wissenschaftlichen Forschung (FWF) and this type of project is described in a separate section of this study. Bilateral international projects can be submitted only with the following cooperating agencies: Deutsche Forschungsgemeinschaft (DFG), Germany (described in separate section of this study), National Research Foundation of Korea (NRF), South Korea, and Ministry of Science and Technology (MOST), Taiwan. International projects do not take a significant share in the overall number of projects funded (1% of projects in 2014).

2.1.3 Necessary partners for project application

Partners are not required for standard and junior grants. Cooperation between eligible organizations is allowed.

2.1.4 Acceptance rate

Acceptance rate depends on topic (evaluation panel), nevertheless it was around 17% for 2013 and 2014 and above 25% in 2015.

2.1.5 Timing of calls

Standard and junior grants applications are opened annually during March. A list of funded projects is published at the end of November and supported grants can start from January, 1st of the next year.

2.1.6 Average funding per project

Funding per project or maximal budget is not explicitly restricted by Czech Science Foundation. Nevertheless, ordinary budget depends on project type and it is usually around 2 million CZK (i.e. 70 thousand Euro) per year for standard grant and around 1 million CZK (i.e. 35 thousand Euro) per year for junior project.

Czech Science Foundation usually allocates around 700 million CZK (i.e. 25 million Euro) per year for first year of new projects of all new grants starting that year.

2.1.7 Co-financing

Co-finance is possible, but not required and neither usual.

2.1.8 Limits of funding

There are no strict limits of funding in view of the amount of money a proposal can ask for.

2.1.9 Possibilities of funding

- PhD students

Each type of project can be used to fund (usually partially) PhD students.

- Salaries for academic workers

Yes, in all types of the projects, but starting from 2016, with strict and very low limits in most of the cases for standard projects (30 thousand CZK per month per person working with 100% working load, i.e., approx. 1.1 thousand Euro). The number of workers is naturally limited by the budget.

- Mobility

Mobility in its pure form is not supported by standard and junior grants. Reasonable amount of conference fees and coherent travel expenses can be included and covered by each type of the grant.

Services

Yes, service expenses are allowed.

Investments

It is not possible (or practically not possible) to purchase investments with price(s) higher than 40 thousand CZK, i.e. 1.5 thousand Euro per unit, or with price higher than 60 thousand CZK, i.e. 2.1 thousand Euro, in case of software. It is usually forbidden for standard projects. Junior grants allow investments, but are limited by the overall budget (relatively low) and duration of the project (up to three years).

2.1.10 Official website

www.gacr.cz

2.2 Technology Agency - Programme DELTA

2.2.1 Who can apply

Small, medium and large enterprises can apply for projects of the Technology Agency of the Czech Republic (Technologická agentura České republiky – TAČR). Research institutions can apply for the project only if an enterprise is another participant in the project.

2.2.2 Brief characterization

The public tender for joint projects in industrial research and experimental development with companies and research institutions is supported by leading international technology and innovation agencies (cooperating with TAČR). Main topics of the research activities:

- Competitive knowledge-based economy General purpose technologies for innovations; efficiency, effectiveness and adaptability; safety and reliability of products, processes and services.
- Sustainability of energy and material resources sustainability of energy; reducing the energy intensity of the economy; advanced materials.
- Environment for quality life natural resources; global changes; green infrastructures; intelligent human settlements; environmental technologies and society.
- Safe society safety of citizens; protection against crime, extremism and terrorism; security of critical infrastructures and resources; crisis management.

Industrial research and experimental development projects only are supported in the frame of the programme. Projects have to achieve at least one new R&D result of the following types: patent, software, prototype, functional specimen, utility model, industrial design, certified methodology, pilot plan, and verified technology.

Annual tender call is planned for years 2014-2016 for the projects beginning in years 2015-2017. Duration of the proposed project is expected to be at least 1 year, with a maximum of 3 years (ends no later than May 31, 2019).

2.2.3 Necessary partners for project application

Foreign partner submitting complementary project proposal to the foreign partner agency for financial support or foreign partner with already supported similar topic project or foreign partner financing the joint project on their own is required. A recent list of eligible foreign partner territories: Jiangsu (China), Zhejiang (China), Sichuan (China) and Taiwan.

2.2.4 Acceptance rate

The acceptance rate for the first call (2014) was 15%.

2.2.5 Timing of calls

From June-July to August-September.

2.2.6 Average funding per project

Ordinary budget depends on project type and number of applicants. For the first call (2014) the average budget of successful project was 11 million CZK (min. 3 million CZK, max. 15 million CZK). The program has overall a budget of 768 million CZK, out of which 46 million CZK was released in the first call.

2.2.7 Co-financing

Co-financing is required in the amount of 26% of total project budget.

Maximal support for research institutions is 100%, the amount of financial support for enterprises is listed in Tab. 1.

Industrial research				
	Small enterprises	Medium enterprises	Large enterprises	
Basic support	70%	60%	50%	
Maximum support	80%	75%	65%	
	Experimen	tal development	•	
Small enterprises Medium enterprises Large enterprises				
Basic support	45%	35%	25%	
Maximum support	60%	50%	40%	

Tab. 1: Financial support for enterprises in the TAČR Delta programme.

For achieving the maximum support, one of the following conditions has to be met:

- The project includes cooperation with a research institution that has at least 10% of overall budget allocated and can publish results of its research work.
- Two or more enterprises cooperate, where one enterprise carries no more than 70% of eligible costs and at least one SME is involved.

2.2.8 Limits of funding

Maximal financial support per project is limited to 25 million CZK. Full Cost method or flat rate method is available for overhead costs. In case of flat rate method 20% of total direct costs are allowed for overhead costs.

2.2.9 Possibilities of funding

- Salaries for researchers, technicians and supporting staff

Yes, no limits, the salaries have to correspond to the rates for work usual at the time and place.

- Mobility

Mobility in its pure form is not supported. Travel expenses in relation to the project and necessary for its solution are covered.

- Services

Are allowed, max. 20% of the project budget.

- Investments

Not allowed.

2.2.10 Official website

https://www.tacr.cz/index.php/cz/programy/program-delta.html

2.3 Technology Agency - Programme EPSILON

2.3.1 Who can apply

Small, medium and large enterprises, and research institutions.

2.3.2 Brief characterization

The public tender for projects in industrial research and experimental development with results suitable for quick implementation in new products, processes and services. Three subprograms are involved:

- Knowledge-based economy – General purpose technologies for innovations; efficiency, effectiveness and adaptability in transport, engineering, and IT areas; safety and reliability of products, processes and services.

- Energy and materials sustainability of energy; reducing the energy intensity of the economy; advanced materials.
- Environment natural resources; global changes; green infrastructures; intelligent human settlements; environmental technologies and society.

Industrial research and experimental development projects only are supported in the frame of the Program. Projects have to achieve at least one new R&D result of the following types: patent, software, prototype, functional specimen, utility model, industrial design, certified methodology, pilot plan, and verified technology.

Annual tender call is planned for years 2014-2018 for the projects beginning in years 2015-2019. Duration of the proposed project is expected to be at least 1 year, with a maximum of 4 years (but with the end no later than December 31, 2022). The call planned for the year 2015 was cancelled due to lack of finances, the calls for next years are uncertain.

2.3.3 Necessary partners for project application

The project proposal may be submitted by one applicant (Contractor) responsible for the project realization and optionally other participants. Proposals with one Contractor and one or two participants were the most frequent for the first call.

2.3.4 Acceptance rate

The acceptance rate is approx. 8%.

2.3.5 Timing of calls

The first call for project proposals (starting in 2015) was open between May 5, 2014 and June 30, 2014.

2.3.6 Average funding per project

The ordinary budget depends on project type and number of applicants. For the first call (2014) the average budget of successful project was 10 million CZK (min. 2 million CZK, max. 25 million CZK). The program has currently unknown overall budget due to financial issues.

2.3.7 Co-financing

Co-financing is required in the amount of 40% of total project budget.

Maximal support for research institutions is 100%, the amount of financial support for enterprises is listed in Tab. 2.

Industrial research					
	Small enterprises	Medium enterprises	Large enterprises		
Basic support	70%	60%	50%		
Maximum support	80%	75%	65%		
Experimental development					
Small enterprises Medium enterprises Large enterprises					
Basic support	45%	35%	25%		
Maximum support	60%	50%	40%		

Tab. 2: Financial support for enterprises in the TAČR Epsilon programme.

For achieving the maximum support one of the following conditions has to be met:

- The project includes cooperation with a research institution that holds at least 10% of overall budget and can publish the results of its research work.
- Two or more enterprises cooperate, where one enterprise carries no more than 70% of eligible costs and at least one SME is involved.

2.3.8 Limits of funding

Maximal financial support per project is limited to 80 million CZK. Full Cost method or flat rate method is available for overhead costs. In case of flat rate method 20% of total direct costs are allowed for overhead costs.

2.3.9 Possibilities of funding

Salaries for researchers, technicians and supporting staff

Yes, no limits, the salaries have to correspond to the rates for work usual at the time and place.

Mobility

Mobility in its pure form is not supported. Travel expenses in relation to the project and necessary for its solution are covered.

Services

Are allowed, max. 20% of the project budget.

Investments

Not allowed.

2.3.10 Official website

https://www.tacr.cz/index.php/cz/programy/program-epsilon.html

2.4 Ministry of Education, Youth and Sports of the Czech Republic: Programmes COST CZ, KONTAKT II, EUREKA CZ and INGO II

These four Programmes have been running between 2011 and 2017, with annual calls for project proposals. The last call was open in the year 2015, but new calls with similar structure and topic are expected to be open in 2016. Detailed information about these upcoming calls is not known yet.

2.4.1 Who can apply

COST CZ, INGO II – research institutions only.

KONTAKT II, EUREKA CZ – small and medium enterprises, research institutions.

2.4.2 Brief characterization

EUREKA CZ – support for SME and research organizations involved in international cooperation in applied research and experimental development. International programme EUREKA (European Network for Marketoriented, Industrial R&D) project status is required.

COST CZ — support for multilateral international cooperation in fundamental research of a Czech research institution and similar EU institutions cooperating within the COST actions. The membership in the particular COST action is required and the project proposal needs to be approved by the Management Committee of the action.

INGO II – support for international cooperation in research and development area enabling the participation of Czech research institutions in research programs undertaken by leading non-governmental research organizations and for Czech scientific personality participation in the governing bodies of international scientific organizations. Fundamental research is supported.

KONTAKT II – support for bilateral (or multilateral) cooperation with international research and development institutions in the field of fundamental and applied research. Cooperation with selected non-European Union member countries is supported (e.g. USA, Russia, South Korea, Israel, India, Japan). Fundamental and applied research is supported.

2.4.3 Necessary partners for project application

EUREKA CZ – a SME partner is required for research institutions.

COST CZ, INGO II – no partner is required.

KONTAKT II – an international partner from eligible non-European Union member country (a list of eligible countries may change from call to call) is required. The partner is supposed to provide his own financing of research activities.

2.4.4 Acceptance rate

The average acceptance rate of the current Programmes in years 2011-2014:

EUREKA CZ – 57%.

COST CZ - 67%.

INGO II - 53%.

KONTAKT II - 26%.

2.4.5 Timing of calls

Unknown. It depends on the new Programme scheme.

2.4.6 Average funding per project

Unknown. It depends on the new Programme scheme.

2.4.7 Co-financing

EUREKA CZ - 50% financial support in case of the applied research, and 25% in case of the experimental development. The total financial support can be increased by additional 15% in case research institution is involved in the project proposal as another participant.

COST CZ, INGO II – co-financing is not required.

KONTAKT II - 100% financial support in case of the fundamental research, 50% in case of the applied research, and 25% in case of the experimental development.

2.4.8 Limits of funding

Unknown. It depends on the new Programme scheme. Overhead costs are allowed as 20% of the total budget.

2.4.9 Possibilities of funding

- Salaries for researchers, technicians and supporting staff

Yes, no limits, the salaries have to correspond to the rates for work usual at the time and place

- Mobility

Mobility in its pure form is not supported. Travel expenses in relation to the project and necessary for its solution are covered.

- Services

Are allowed. Consulting services only are allowed for EUREKA CZ.

- Investments

Are allowed for COST CZ and EUREKA CZ.

2.4.10 Official websites

COST CZ: http://www.msmt.cz/vyzkum-a-vyvoj-2/cost-cz-ld

INGO II: http://www.msmt.cz/vyzkum-a-vyvoj-2/ingo-ii-lg

KONTAKT II: http://www.msmt.cz/vyzkum-a-vyvoj-2/kontakt-ii-lh

EUREKA II: http://www.msmt.cz/vyzkum-a-vyvoj-2/eureka-cz-lf

2.5 Ministry of Education, Youth and Sports of the Czech Republic: Programme MOBILITY

2.5.1 Who can apply

Natural person or research institution.

2.5.2 Brief characterization

The MOBILITY activity supports bilateral international agreements on scientific and technological cooperation agreed by the Czech Republic with partner countries. The aim is to facilitate networking and the development of cooperation between research and development institutions in partner countries, and by promoting mobility of researchers collaborating on solving international research projects. Fundamental research oriented projects are supported.

Research projects supported under the MOBILITY are usually two years in duration. The eligible partner countries include: Argentina, France, Germany, Poland, Austria and Slovakia.

2.5.3 Necessary partners for project application

An international research institution is required as the project partner.

2.5.4 Acceptance rate

Unknown.

2.5.5 Timing of calls

Different calls for each of the partner countries.

2.5.6 Average funding per project

Unknown.

2.5.7 Co-financing

Not required.

2.5.8 Limits of funding

In case of European country collaboration: 100 thousand CZK per year, i.e. 200 thousand CZK per project.

In case of non-European country collaboration: 160 thousand CZK per year, i.e. 320 thousand CZK per project.

2.5.9 Possibilities of funding

Salaries for researchers, technicians and supporting staff Not allowed.

- Mobility

Travel and subsistence costs of researchers traveling abroad, where the sending party pays transportation costs (including the health insurance) and the receiving party's subsistence costs (accommodation, meals, pocket money). Attendance in conferences and seminars is not allowed.

Services

Not allowed.

Investments

Not allowed.

2.5.10 Official website

http://www.msmt.cz/vyzkum-a-vyvoj-2/mobility-6

2.6 Ministry of Industry and Trade of the Czech Republic

2.6.1 Who can apply

Small, medium and large enterprises can apply for the Ministry of Industry and Trade (Ministerstvo průmyslu a obchodu - MPO) projects. Research institutions can be involved as further participants.

2.6.2 Brief characterization

One-round public tenders in research, experimental development and innovations in the Key Enabling Technologies (KET) area are called in the frame of the Programme TRIO. Following KETs will be supported within the Programme: photonics, micro- and nanoelectronics, nanotechnologies, industrial biotechnologies, advanced materials and manufacturing technologies.

The Programme may support only projects that reasonably expect to achieve at least one new major R&D result (patent, software, prototype, functional specimen, utility model, industrial design, pilot plan, or verified technology).

Annual tender call is planned for years 2015-2017 for the projects beginning in years 2016-2018. Since the first call has not been released yet, there is no detailed information available.

2.6.3 Necessary partners for project application

A research institution is required as a project participant.

2.6.4 Acceptance rate

Unknown.

2.6.5 Timing of calls

Unknown.

2.6.6 Average funding per project

Unknown. The program has overall budget of 3.7 billion CZK.

2.6.7 Co-financing

Co-financing is required at the level of 20% of total project budget.

Research institutions can ask for 100% financial support. The amount of a financial support for enterprises is summarized in Tab. 3.

Industrial research			
	Small enterprises	Medium enterprises	Large enterprises
Basic support	70%	60%	50%
Maximum support	80%	75%	65%
	Experiment	tal development	1
	Small enterprises	Medium enterprises	Large enterprises
Basic support	45%	35%	25%
Maximum support	60%	50%	40%

Tab. 3: Financial support for enterprises in the MPO projects.

For achieving the maximum support one of the following conditions has to be met:

- The project includes cooperation with a research institution that holds at least 10% of the overall budget and can publish the results of its research work.

- Two or more enterprises cooperate, where one enterprise carries no more than 70% of eligible costs and at least one SME is involved.

2.6.8 Limits of funding

Maximal financial support per project is limited to 20 million CZK. Overhead costs limit is unknown.

2.6.9 Possibilities of funding

Salaries for researchers, technicians and supporting staff

Yes, no limits, the salaries have to correspond to the rates for work usual at the time and place.

Mobility

Mobility in its pure form is not supported. Travel expenses related to the project and necessary for its solution are covered.

Services

Are allowed.

Investments

Only amortization of current devices and equipment is allowed.

2.6.10 Official website

http://www.mpo.cz/cz/podpora-podnikani/vyzkum-a-vyvoj/

2.7 Ministry of the Interior of the Czech Republic

2.7.1 Who can apply

Small, medium and large enterprises, organisations for research and dissemination of knowledge (e.g. a university, research institute, technology transfer agency, innovation intermediary, a physical or virtual cooperating entity focused on research) - hereinafter referred to as "research institution" can apply for the Ministry of Interior (Ministerstvo vnitra – MV) projects.

2.7.2 Brief characterization

The public tender in research, experimental development and innovations in the security area within the Program of Security Research of the Czech Republic 2015-2020 (BV III/1 - VS) has three main topics specified:

- Security of citizens warning systems; monitoring the formation and evaluation of developments and implications of the crisis situation; people, property and the environment protection; town and village safety improvement; tools for threats, risks and crime analysis; cyber security.
- <u>Security of critical infrastructures and resources</u> development of alternative emergency and critical processes; improving resistance; methods and tools for risk modelling; European interoperability; detection and recognition of possible threats; ICT, telematics and cyber security; modelling and analysing mutual dependency of systems in order to prevent amplifying the negative effects of a domino effect; prediction and early warning of an adversely affecting.
- <u>Crisis management and security policy</u> analysis of security threats and scenarios of the security situation development; improvement of system for acquiring and sorting safety-relevant information; improvement of cooperation between the security forces; data mining, knowledge engineering and reasoning for security analysis of unstructured and structured information; legislative procedures and internal security arrangements.

The Programme may support only projects that reasonably expect to achieve at least one new R&D result of the following types: patent, software, prototype, functional specimen, utility model, industrial design, certified methodology, pilot plan, verified technology, research report containing classified information.

Industrial research and experimental development projects are supported in the frame of the Program. A fundamental research can be partially included, but only if it is essential for obtaining the results of applied research.

Annual tender call is planned for years 2014, 2015, and 2016 for the projects beginning in years 2015, 2016, and 2017. Duration of a proposed project is expected to be at least 2 years, with a maximum of 6 years (but with the end no later than December 31, 2020).

2.7.3 Necessary partners for project application

A project proposal may be submitted by one applicant or by several applicants in collaboration. A project coordinator has to be stated for a project proposal with several applicants. The coordinator is responsible for the project realization. Proposals with one or two applicants were the most frequent among the grant awarded projects so far.

2.7.4 Acceptance rate

The acceptance rate for the first call (2014) was 14%.

2.7.5 Timing of calls

The call for project proposals is usually open between November and January.

2.7.6 Average funding per project

An ordinary budget depends on project type and number of applicants. For the first call (2014) the average financial support of successful projects was 13 million CZK (min. 2 million CZK, max. 31 million CZK) in case of a single applicant and 18 million CZK (min. 6 million CZK, max. 46 million CZK) in case of two applicants. The Programme has an overall budget of 2.2 billion CZK out of which 948 million CZK was released in the first call.

2.7.7 Co-financing

Research institutions can ask for 100% financial support. Co-financing is required from small, medium and large enterprises; the amount of financial support provided is summarized in Tab. 4.

Industrial research				
	Small enterprises	Medium enterprises	Large enterprises	
Basic support	70%	60%	50%	
Maximum support	80%	75%	65%	
Experimental development				
Small enterprises Medium enterprises Large enterprises				
Basic support	45%	35%	25%	
Maximum support	60%	50%	40%	

Tab. 4: Financial support for enterprises in the MV projects.

For achieving the maximum support one of the following conditions has to be met:

- The project includes cooperation with a research institution that has at least 10% of the overall budget assigned and can publish the results of its research works.
- The project's results are published at conferences, in open access journals or as free or open source software.

2.7.8 Limits of funding

The maximal budget per project is limited to 130 million CZK. Full Cost method or Additional Cost method is available for overhead costs. In case of Additional Cost method 10% of total direct costs are allowed for overhead costs.

2.7.9 Possibilities of funding

Salaries for researchers, technicians and supporting staff

Yes, no limits, the salaries have to correspond to the rates for work usual at the time and place.

- Mobility

Mobility in its pure form is not supported. Travel expenses related to the project and necessary for its solution are covered.

Services

Two types are allowed:

- Sub-contracts max. 20% of the applicant's budget, research institution can subcontract only another research institution. All sub-contracts need to be specified in the project proposal.
- Other services consulting services and the final audit.

Investments

It is possible to purchase investments with price(s) higher than 40 thousand CZK per unit, or with price higher than 60 thousand CZK, in case of software.

2.7.10 Official website

http://www.mvcr.cz/bezpecnostni-vyzkum.aspx

2.8 Ministry of the Health of the Czech Republic

2.8.1 Who can apply

A subject carrying out an economic activity consisting in offering products or services on a given market and research institutions can apply for the Ministry of Health (Ministerstvo zdravotnictví - MZ) projects.

2.8.2 Brief characterization

One-round public tenders in industrial research and experimental development in the health area called in the frame of the Programme to Support medical applied research and development between 2015 and 2022 covering three main topics:

- <u>The emergence and development of diseases</u> diseases of the metabolic and endocrine, circulatory system, cancer, neural and psychological, inflammatory and immunological; infections; musculoskeletal disorders; childhood and rare diseases.
- <u>New diagnostic and therapeutic methods</u> in vitro diagnosis; low-molecular-weight medications; biologic medications; drug delivery systems; gene, cell therapy and tissue replacements; new medical equipment and devices development; innovative surgeons procedures.
- <u>Epidemiology and prevention of major diseases</u> diseases of the metabolic and endocrine, circulatory system, cancer, neural and psychological, inflammatory and immunological; infections; musculoskeletal disorders; addictions.

The Programme may support only projects that reasonably expect to achieve at least one new major R&D result (patent, software, prototype, functional specimen, utility model, industrial design, certified methodology, pilot plan, verified technology, impact factor journal paper) and one minor R&D result (book or book chapter, conference paper, journal paper). At least one impact journal paper archived exclusively within the frame of the project is required. The number and quality of planned results is one of the main criteria for evaluating the project proposal.

An implementation plan and a contract for the use of project results will be required before the project completion.

Industrial research and experimental development projects are supported in the frame of the Programme. Fundamental research can be partially included, but only if it is essential for obtaining the results of applied research and is limited by the maximum of 20% activities (and eligible costs) of the project proposal.

Annual tender call is planned for years 2015 - 2019 for the projects beginning in years 2016 - 2020. Duration of the proposed project is expected to be at least 3 years, for a maximum of 5 years (but with the end no later than December 31, 2020).

2.8.3 Necessary partners for project application

The project proposal may be submitted by one applicant (Contractor) responsible for the project realization and optionally other participants. Proposals with one Contractor and one participant were the most frequent for the first call.

2.8.4 Acceptance rate

The acceptance rate for the first call (2014) was 25%.

2.8.5 Timing of calls

The dates of the calls for project proposals vary between May and June.

2.8.6 Average funding per project

An ordinary project budget depends on the project type and the number of participants. For the first call (2014) the average budget of successful projects was 10 million CZK (min. 2 million CZK, max. 21 million CZK). The Programme has an overall budget of 6.5 billion CZK out of which 1.605 billion CZK was released in the first call.

2.8.7 Co-financing

Research institutions can ask for 100% financial support. Co-financing is required from small, medium and large enterprises; the amount of financial support is summarized in Tab. 5.

	Fundame	ental research	
	Small enterprises	Medium enterprises	Large enterprises
Basic support	100%	100%	100%
	Industr	rial research	J
	Small enterprises	Medium enterprises	Large enterprises
Basic support	70%	60%	50%
Maximum support	80%	75%	65%
	Experiment	tal development	1
	Small enterprises	Medium enterprises	Large enterprises
Basic support	45%	35%	25%
Maximum support	60%	50%	40%

Tab. 5: Financial support for enterprises in the MZ projects.

For achieving the maximum support one of the following conditions has to be met:

- The project includes cooperation with a research institution that has holds least 10% of the overall budget and can publish the results of its research work.
- Two or more enterprises cooperate, where one enterprise carries no more than 70% of eligible costs or at least one SME is involved.
- Project's results are published at conferences, in open access journals or as free or open source software.

2.8.8 Limits of funding

No limit on the maximal budget. Overhead costs can be up to 20% of direct costs excluding investments.

2.8.9 Possibilities of funding

- Salary for researchers, technicians and supporting staff

Yes, no limits, the salaries have to correspond to the rates for work usual at the time and place. The minimum workload for the principal investigator is 0.2 Full Time Equivalent (FTE) and 0.1 FTE for expert co-worker.

- Mobility

Mobility in its pure form is not supported. Travel expenses related to the project and necessary for its solution are covered. Travel expenses are limited to 80 thousand CZK for the first year of the project and 150 thousand CZK for the other years.

Services

Are allowed.

Investments

It is possible to purchase investments with price(s) higher than 40 thousand CZK per unit, or with price higher than 60 thousand CZK, in case of software.

2.8.10 Official website

http://www.mzcr.cz/obsah/veda-a-vyzkum 977 3.html

2.9 South Moravian Innovation Centre & Vouchers

2.9.1 Who can apply

Small and medium enterprises with site or establishment in the South Moravian region eligible for *de minis* support.

2.9.2 Brief characterization

Innovation vouchers represent a tool by which the city of Brno and the South Moravian Innovation Center (further JIC) support cooperation between companies and research institutions. Companies can ask for a voucher to purchase new and not widely available knowledge (product or service development, testing and measurement, access to research devices, prototype and product design, feasibility study, technological audit, etc.) from a research institution.

Voucher proposals are submitted to an expert committee to check the formal and substantive requirements. The successful proposals are chosen by a lottery drawing.

2.9.3 Necessary partners for project application

A research institution is required as partner providing knowledge supply.

2.9.4 Acceptance rate

The acceptance rate is on average 20% to 30%.

2.9.5 Timing of calls

The annual calls for voucher proposals are usually open from March to April.

2.9.6 Average funding per project

The usual budget is approx. 100 - 150 thousand CZK per project (including voucher value and co-financing).

2.9.7 Co-financing

Co-financing is required. The voucher can cover no more than 75% of total costs (50% in case of being awarded a voucher in the past already).

2.9.8 Limits of funding

Maximal value of voucher is limited to 100 thousand CZK.

2.9.9 Possibilities of funding

Depends on the particular research institution.

2.9.10 Official website

https://www.jic.cz/voucher/

3 Bilaterally Funded Programmes

In the recent 10 years special programmes were established supporting deep bilateral cooperation between research institutions from two countries: Czech Republic and one foreign country. In this context, the most relevant country tandems are as follows: Czech Republic-Austria, Czech Republic-Germany, and Czech Republic-State of Israel.

Bilateral projects are generally supported on the principle of reciprocal responsibility: those researchers working in Czech interact with the GACR or MSMT, while their cooperative partners working abroad liaise with the funding bodies in their own country. This applies, in particular, to institutions with which the responsible Czech institution has signed a joint funding agreement for research cooperation.

General project features:

- calls for bilateral projects can be narrowly or broadly defined,
- in each project there are two leader institutions (one Czech and one foreign coordinator),
- participation of more institutions from one country is possible,
- funding and budgets are nationally separated,
- funding must be secured both in Czech and in the partner country,
- proposal reviewing and project evaluation are made in 2 rounds (national and bilateral),
- engineering has lower acceptance rate compared to other disciplines, in general.

3.1 GAČR and FWF Cooperation Programme Czech Republic - Austria

3.1.1 Who can apply

Same institutions as in the case of non-international Czech Science Foundation (GAČR) grants (from Czech side).

3.1.2 Brief characterization

Czech Science Foundation refers to this type of project as International – Lead Agency. Evaluation of proposals is done only by one agency, and the agencies alternate in their roles annually.

Some characteristic as in case of non-international project of Czech Science Foundation applies: only fundamental research is supported, projects have to be 2-3 years long, particular research topic is determined just by applicant. Moreover, international cooperation must bring ascertained mutual benefit. International projects are not preferred so much (1% of projects in 2014).

3.1.3 Necessary partners for project application

Cooperation with partner research institution from Austria is obviously mandatory. Partner organization has to fulfil conditions specified by foreign agency (FWF).

3.1.4 Acceptance rate

Acceptance rate was slightly above 8% (9 supported projects out of 108 proposals) in 2015.

3.1.5 Timing of calls

Call for International – leading agency grants are usually open during November. A list of supported proposals is published by the end of the next year.

3.1.6 Average funding per project

Funding per project or maximal budget is not specified by Czech Science Foundation. The ordinary budget depends on project type and it is usually around 2 million CZK (70 thousand Euro) per year for international grant.

3.1.7 Co-financing

Co-financing is possible, although neither required nor usual.

3.1.8 Limits of funding

There are no strict limits of funding in terms of the amount of money a proposal can ask for.

3.1.9 Possibilities of funding

- PhD students

Same rules as in the case of non-international Czech Science Foundation grants, FWF rules apply for the Austrian partner.

- Salaries for academic workers

Same rules as in the case of non-international Czech Science Foundation grants. FWF rules apply for the Austrian partner.

Mobility

Same rules as in the case of non-international Czech Science Foundation grants. FWF rules apply for the Austrian partner.

Moreover, international grants support also mutual mobility of researchers from cooperating organizations.

Services

Same rules as in the case of non-international Czech Science Foundation grants. FWF rules apply for Austrian partner.

Investments

Same rules as in the case of non-international Czech Science Foundation grants. FWF rules apply for Austrian partner.

3.1.10 Official websites

http://www.gacr.cz

http://www.fwf.ac.at/en

3.2 AKTION Cooperation Programme Czech Republic – Austria

3.2.1 Who can apply

Students, scholars, teachers and researchers from Czech and Austrian public universities can apply. There are age limits for individuals as follows: students up to 35 years, university teachers and researchers up to 60 years.

3.2.2 Brief characterization

AKTION Czech Republic-Austria, cooperation in science and education, is a programme supporting bilateral cooperation in the tertiary sector in all scientific areas through grants and collaborative projects. The programme AKTION was launched in 1992 as a joint programme of both countries' Ministry of Education. The programme funds the cooperation projects which aim to enhance new cooperation as well as to boost the existing cooperation. Two types of activities are supported:

- individual study stay scholarships and research scholarships for the stay in the other country and for participation in summer language courses and summer schools;
- institutional funding of cooperation projects of Czech and Austrian institutions in higher education.

The executive body of the programme is the steering committee (five Czech and five Austrian members). The members are representatives of their respective Ministry of Education and institutions in higher education. The administration of the programme AKTION is performed by the AKTION office in Prague. The contact point in Austria is the Austrian agency for international mobility & cooperation in education, science and research in Vienna. The research projects have to be 1 or 2 years long.

3.2.3 Necessary partners for project application

Cooperation with partner institution from Austria is obviously mandatory. The research projects should have one Czech and one Austrian principal investigator. Other participants are allowed, but optional. The scholarship application may be submitted by one individual applicant responsible for the activity realization (Letter of Acceptance from receiving institution is needed).

3.2.4 Acceptance rate

Acceptance rate was 70% (49 supported projects out of 70 proposals) in 2015.

3.2.5 Timing of calls

The steering committee assesses research project proposals three times a year (April 15, September 15, and November 30) and scholarship proposals two times a year (March 15 and October 31). Each call is open for one to two months. A list of supported proposals is published usually within 6 months after proposal submission deadline.

3.2.6 Average funding per project

The project budget depends on activity type and funding limits mentioned in the section "Limits of funding". In case of research projects, the averaged funding is approx. 39 thousand CZK and 2.3 thousand Euro per year (in 2015).

3.2.7 Co-financing

Co-financing is possible, but not required. The projects may be granted by 100% of eligible cost.

3.2.8 Limits of funding

There are strict limits of funding in all financial categories given separately for the Czech side and for the Austrian side. The limits mentioned below concern the Czech members of the project team. The limits of one-month-scholarships differ according to qualification as follows: 27 thousand CZK for university teachers, 9.5 thousand CZK for PhD students and 9 thousand CZK for master students elaborating their diploma thesis. Students can be supported by scholarship from 1 to 5 months in total. The scholarship for researchers is applicable for 1 month in a row (with the possibility to repeat it three times a year). The fee for giving one lecture unit is 800 CZK and at most 4 lecture units per person and per project can be funded in total. The stay rates (board and lodging) in Austria may be 90 Euro per day for short stay of 10 days at most or 940 Euro per month for students or 1.040 Euro per month for researchers. Return fare is refundable according to the rail ticket (economy class only)

3.2.9 Possibilities of funding

- PhD students

Only mobility costs and some services related to PhD students can be funded.

Salaries for academic workers

Salary in its pure form is not supported. Only fee for lectures given at the guest university is possible.

Mobility

Mutual mobility of students and researchers from cooperating organizations is the main funded activity.

Services

It is possible to support services such as publication costs. Overhead is not allowed.

Investments

Investments are not allowed.

3.2.10 Official websites

http://www.dzs.cz/cz/aktion-ceska-republika-rakousko/pokyny-pro-projekty
http://www.dzs.cz/de/aktion-osterreich-tschechische-republik/richtlinien-fur-projekte/

3.3 GAČR and DFG Cooperation Programme Czech Republic – Germany

3.3.1 Who can apply

The same institutions as in the case of non-international Czech Science Foundation grants (on the Czech side) can apply.

3.3.2 Brief characterization

The Czech Science Foundation (GACR) and the German Research Association (DFG) jointly offer the possibility to apply for Czech-German Joint Research Projects. These projects should combine the complementary expertise of the project partners, the project parts should be closely integrated and there should be relevant scientific input from both sides. The GACR refers to this type of project as International – Bilateral (unlike the project category International – Lead Agency). Evaluation of proposals is carried out independently by both partner organizations according to their own evaluation systems and national laws. In case of GACR, the evaluation of project proposals is based on a bottom-up peer review system (panel system and foreign reviewers). Partner agencies exchange the results of their evaluation at the end of the evaluation process. Only project proposals that are recommended for financing by both partner organizations (DFG and GACR) are awarded.

Proposals for bilateral projects have to be based on mutually complementary scientific approaches. The projects have to be between two and three years in duration. Likewise, in case of non-international project of Czech Science Foundation, only fundamental research can be supported. The particular research topic is determined just by the applicant.

3.3.3 Necessary partners for project application

Cooperation with partner research institution from Germany is obviously mandatory. The projects should have one Czech and one German principal investigator. The partner organization has to fulfil the conditions specified by foreign agency (DFG).

3.3.4 Acceptance rate

Acceptance rate was slightly above 22% (9 supported projects out of 41 proposals) in 2015.

3.3.5 Timing of calls

Call for International – Bilateral grants are usually open during February and March for Czech applicants. On the German side, DFG is ready to receive project applications continuously throughout the year. Collected proposals are considered in assessment panels, which also meet continuously throughout the year. To ensure a preferably parallel processing of the joint projects and reaching the final decision on both sides at the same time, DFG recommends that the German cooperation partners may apply for funding at DFG within GACR's given deadline. A list of supported proposals is published by the end of the year proposals were submitted and evaluated.

3.3.6 Average funding per project

The funding and budget are separated for Czech and German side. Funding per project or maximal budget are not prescribed by Czech Science Foundation. An ordinary budget depends on project type and it is usually around 1.5 million CZK (i.e. 55.5 thousand Euro) per year on the Czech side.

3.3.7 Co-financing

Co-financing is possible, but is neither required nor usual.

3.3.8 Limits of funding

There are no strict limits of funding in view of the amount of money a proposal can ask for.

3.3.9 Possibilities of funding

- PhD students

The same rules apply as in the case of non-international Czech Science Foundation grants. DFG rules apply for the German partner.

- Salary for academic workers

The same rules apply as in the case of non-international Czech Science Foundation grants. DFG rules apply for the German partner.

Mobility

The same rules apply as in the case of non-international Czech Science Foundation grants. DFG rules apply for the German partner. Moreover, international grants support also mutual mobility of researchers from cooperating organizations.

Services

The same rules apply as in the case of non-international Czech Science Foundation grants. DFG rules apply for the German partner.

Investments

The same rules apply as in the case of non-international Czech Science Foundation grants. DFG rules apply for the German partner.

3.3.10 Official websites

http://www.gacr.cz

http://www.dfg.de/en/

3.4 Cooperation Programme Czech Republic - Bavaria

Joint call of the Bavarian State Ministry of Education, Science and the Arts and the Ministry of Education, Youth and Sports of the Czech Republic for bilateral projects for enhancement of the scientific and research cooperation between The Czech Republic research institutions and the Bavarian research institutions. The call is generally open to any scientific fields, but nanotechnology/materials sciences and ICT are chosen as priority areas. Both fundamental and applied research is supported. This call is open for one and two years projects which will be implemented in 2016 – 2017.

Eligible costs are mobility costs (travel, meals and accommodation expenses, insurance) and costs related to workshops and seminars (e.g. group catering, hire of facilities and equipment).

The maximum funding per project and year is 20 thousand Euro. Co-financing in the amount of 20% of the budget is required.

3.4.1 Official website

http://www.msmt.cz/vyzkum-a-vyvoj/cesko-bavorska-spoluprace-ve-vav

3.5 Cooperation Programme Czech Republic – State of Israel

The call for bilateral research project proposal with cooperation of the Czech research institution (or SME in cooperation with research institution) and of the Israeli research institution in the area of fundamental or industrial research expects projects in years 2016-2018. The supported research areas include:

- Environmental protection technology,
- Information and communication technology (ICT) with a focus on the processing, transmission and storage of data.

A research project proposal must be submitted at the same time by the Czech team in the Czech Republic and by the Israeli team in Israel. The focus of the research project administered separately by the Czech team and by the Israeli team in the respective countries must be identical in content.

Projects may be granted by 100% of eligible costs in case of the fundamental research, 50% in case of the industrial research.

3.5.1 Official website:

http://www.msmt.cz/vyzkum-a-vyvoj/cesko-izraelska-spoluprace-ve-vavai

4 Other Funding Opportunities for Czech Applicants

Additional opportunities for obtaining support for projects and other activities are offered by the international Norway grants as well as other national agencies. Although foreign national programmes manage primarily national projects, not only candidates from the home country can draw on support – individuals and institutions from abroad can also be supported. Within these programmes it is possible to get the financial support for various scholarships or for research cooperation.

Below some examples which may be interesting for Czech applicants are listed.

4.1 Norway Grants and EEA Grants (Norway, Iceland, Liechtenstein)

The EEA Grants and Norway Grants support bilateral partnership projects with entities from Iceland, Liechtenstein and Norway through 150 programmes. The programmes differ according to the partner country. For the Czech Republic, the The Czech – Norwegian Research Programme is a suitable funding opportunity. The local Programme operator is Ministry of Education, Youth and Sports. The Programme is aimed to enhance science and research cooperation between Czech and Norwegian entities and fund the creation of new scientific knowledge and quality outputs through bilateral science and research projects in basic and applied research and experimental development. At least one Czech participant (a research institution or SME) and one Norwegian participant have to take part in each project. The research areas are:

- Social sciences and the humanities,
- Environment,
- Health.

Since the duration of the Programme is until 2017, no calls for project proposal are planned for next year, but it is expected that a similar programme will be approved in 2016.

The total budget of the current Programme is 15 million Euro. The budget of project proposals ranges from 100 thousand Euro up to 1 million Euro. The Programme is co-financed by the Ministry in the amount of 20%.

Projects may be granted 100% of eligible costs in case of the fundamental research, 50% in case of the applied research, and 25% in case of the experimental development.

The acceptance rate is about 5%.

4.1.1 Official websites:

http://eeagrants.org/Where-we-work/Czech-Republic#programmes

http://www.msmt.cz/vyzkum-a-vyvoj/czech-norwegian-research-programme

4.2 National Science Foundation (USA)

National Science Foundation (NSF) is a primary agency supporting fundamental research in the USA. Its support is intended particularly only for US researchers (colleges, universities, businesses, informal science organizations and other research organizations), however it is possible to support EU research institutions through a US partner, if the EU partner is unique and indispensable.

This agency has programs supporting technical research, cooperative research between universities and industry, lecturing, education and conferences.

Annual overall budget is over 7 billion USD (6.3 billion Euro). Average funding per project is unknown. For example, there are calls, where the annual budget is around 100 thousand USD (89 thousand Euro), and calls where the annual average budget is over 500 thousand USD (446 thousand Euro). Some particular calls require partnership or private money.

Acceptance rate is about 23% of approximately 40 thousand proposals each year and several thousand applications for graduate and postdoctoral fellowships.

4.3 National Institutes of Health (USA)

National Institutes of Health (NIH) is the richest research-supporting agency in US – it provides 30 billion USD (26.9 billion Euro) annually. NIH supports unique, non-replicable research in medical areas of enhancing health, extending healthy life, and reducing the burdens of illness and disability. In general, US or foreign, public or private, non-profit or for-profit organizations are eligible to receive NIH grants (but there are several exceptions for non-US institutions and usually partnership with US research institution is required). More than 3200 grants are approved to EU countries annually (only 16 grants to Czech Republic vs. 64 grants to Austria in 2014). NIH also supports internships of foreign students/faculty at US universities.

Calls published by NIH are referred to as Funding Opportunity Announcements (FOAs). Acceptance rate (averaged by all programs) was around 21% in 2014, but it varies a lot depending on the particular program.

4.4 Office of Naval Research (USA) in Prague

Office of US Naval Research (ONR) supports research in the areas of security for armed forces and unique new methods and technologies for the army. The office provides 100% financing (no co-financing is required). Calls are open for research institutions, business and also for non-US applicants. ONR has its branch in Prague that can help with preparation of proposal – they are able to pre-review 2-page long abstract of future proposal and they provide information about possibilities of funding in more detail.

4.5 Austrian Science Fund

The Austrian Science Fund FWF (in original "Förderung der wissenschaftlichen Forschung") is Austria's central funding organization for basic research.

The FWF is a member of Science Europe, the new umbrella organization for 50 research funding and research performing organisations from 25 European countries (founded in October 2011). In this context, the FWF maintains a number of cooperation agreements with international partner organisations and manages international joint programmes such as COST, EUREKA, etc. In the bilateral scientific cooperation with Czech Republic is the FWF partner agency of the Czech Science Foundation (GACR).

The FWF organizes regularly many project calls, some of them for scientists from abroad (an Austrian coapplicant is needed). An overview of programmes for funding of research and mobility can be found at the FWF website.

4.5.1 Official website

https://www.fwf.ac.at/

4.6 OeAD – Austrian Agency for International Mobility and Cooperation in Education, Science and Research

The OeAD (in original "Österreichischer Austauschdienst") is the central service agency for European and international mobility and cooperation programmes in education, science and research. Its core activity is the exchange of people across the age and educational spectrum. Comprehensive information (list and map) about international cooperation of Austrian higher education institutions, non-university research institutions and companies in the fields of research, development and teaching/learning can be found in the database http://oead.international-cooperation.at/. This database enables searching according to defined criteria. The OeAD manages also the public Austrian Database for Scholarships and Research Grants where those interested in funding information can search systematically for type of grant, subject area, target group, etc. The database is available online at http://www.grants.at

4.6.1 Official website

http://www.oead.ac.at/

4.7 DFG – German Research Association

The DFG (in original "Deutsche Forschungsgemeinschaft") is the central self-governing public funding organisation for academic research in Germany. It serves all branches of science and the humanities. In organisational terms, the DFG is an association under private law. Its membership consists of German research universities, non-university research institutions, scientific associations and the academies of science and the humanities. The DFG receives the large majority of its funds from the federal government and the states.

The DFG supports cooperation with international partners in all of its funding programmes and with a multitude of instruments. In general, it is possible to apply for the funds needed for cooperation, in addition to the project funding itself, regardless of the specific type of project funding involved.

The main aim is to promote cooperation between science and industry and foster links with research abroad. Particular emphasis is placed on support young scientists. The DFG Senate establishes in selected fields the Priority Programmes for periods up to six years. In addition, any academic scientist or scholar may propose a research project of his choice in the Individual Grants Programme. The DFG also has an index of specially funded research projects, listed according to scientific field. These lists contain the start and title of the special research areas as well as links to other sites (where applicable). The lists can be found at the official website.

4.7.1 Official website

http://www.dfg.de/

http://www.dfg.de/foerder/sfb/liste.sfb.html

4.8 DAAD – German Academic Exchange Service

The DAAD (in original "Deutscher Akademischer Austauschdienst") is a registered association in Germany under private law. It is the world's largest funding organisation for the international exchange of students and researchers with annual budget approx. 250 million Euro. The DAAD funding programmes provide scholarships which help finance a semester abroad, doctoral programmes and internships, guest lectureships, visits to information events, and even the establishment of new universities abroad. The DAAD supports more than 200 programmes generally open to all academic disciplines in all countries. Its activities rely on a strong organisational structure, a worldwide network of partners and alumni and a staff of over 900 employees. The DAAD has its Information Centre also in Prague.

The DAAD annual report provides information about the most important projects, current statistics and an overview of the many different tasks. Current and recent annual reports are available at the German DAAD website.

4.8.1 Official websites

https://www.daad.de

http://www.daad.cz

https://www.daad.de/medien-und-publikationen/en/29887-annual-report

4.9 AvH – Alexander von Humboldt Foundation

The AvH (in original "Alexander von Humboldt Stiftung") is an independent foundation in Germany under private law with annual budget about 50 million Euro. It promotes academic cooperation between excellent scientists and scholars from abroad and from Germany. The research fellowships and research awards allow scientists to come to Germany to work on a research project they have chosen themselves together with a host and collaborative partner. The main aim of the AvH is to grant research fellowships and research awards to highly qualified post-doctorate scholars. The AvH programmes are open to applicants from all countries and all academic disciplines at different career stages. There are also a number of small programmes for specific countries.

4.9.1 Official website

www.humboldt-foundation.de

4.10 VWS - Volkswagen Foundation

The Volkswagen Foundation (in original "Volkswagen Stiftung") is a public interest organisation under private law and the largest of its kind it Germany (overall funding volume of around 150 million Euro per year). The Volkswagen Foundation is neither a corporate foundation nor affiliated to the Volkswagen AG automobile company; its decision-making bodies are autonomous and independent.

The Foundation provides funds only to academic institutions. It supports the humanities and social sciences as well as science and technology in higher education and research by providing targeted impulses through its funding. The Foundation develops its own funding initiatives with a focus on pioneering future-oriented fields of research. Frequently, the Foundation's objectives are pursued in collaboration with other foundations and public funding organizations. In particular, the Foundation perceives its mission in supporting aspiring young academics and in promoting interdisciplinary and international collaboration. Non-German students and graduates can apply to a variety of scholarships and grant programmes. In addition, there are sponsorship initiatives that specifically target international scientific cooperation and support both institutions and special project abroad.

4.10.1 Official website

www.volkswagen-stiftung.de

4.11 Evangelisches Studienwerk Villigst

Evangelisches Studienwerk awards scholarships for studying at universities and universities of applied sciences all over Germany in three main programmes: undergraduate students, doctoral students, and students from Eastern European countries. Currently, about 1.200 students and more than 250 PhD students from all disciplines are supported.

The scholarship provides a monthly allowance of up to 597 Euro plus 300 Euro for study issues. PhD students receive financial aid of 1050 Euro a month plus a book allowance of 100 Euro.

4.11.1 Official website

http://www.evstudienwerk.de

5 Public Events Focused on Higher Education, Training and Research

There are some useful international public events such as exhibitions and trade fairs oriented on higher education and academic research. Visitors can meet representatives of universities and funding agencies (public as well as private) and use the opportunity to gain specific information or to find partners for potential cooperation. Other very specific events are training courses focused on application process and creation of project proposals devoted to a concrete call for proposals.

The events listed below are related to Czech Republic and its neighbourhood.

5.1 Gaudeamus

Central European Higher Education Fair

http://www.gaudeamus.cz/

Dates: last fair November 3 to 6, 2015 (every year in October or November)

Location: Brno, Czech Republic

The fair is focused on universities, colleges, and long life education.

Supporting programmes: Public lectures, Consulting service, Sciences for life, Knowledge testing.

The fair is organized under the auspices of Czech Ministry of Education, Youth and Sports; Embassy of Germany in Prague; Embassy of Canada in Prague as well as French national agency Campus France located in Czech Republic (in Prague and Brno).

5.2 Didacta

European Education Trade Fair

http://www.didacta-cologne.com

Dates: February 16 to 20, 2016

Location: Cologne, Germany (former years in Basel)

The fair covers all educational areas: early education, schools, universities, training, new technologies, ministries, institutions, and organizations.

5.3 BeSt³

The Job, Training and Education Fair

http://bestinfo.at

Dates: 4 days (every year in Vienna, alternately Graz or Klagenfurt and Salzburg or Innsbruck in a two year cycle)

Location: cities in Austria

Exhibitors include universities, universities of applied sciences, academies, private providers of educational programmes, language schools, interest groups as well as companies informing about jobs and in-house training programmes.

BeSt³ is organised jointly by the Federal Ministry for Education and Women (BMBF), Federal Ministry for Science, Research and Economy (BMWFW) and the Austrian Employment Service (AMS).

5.4 WORLDDIDAC - World Education Conference

http://www.worlddidac-bern.ch

Dates: November 8 to 10, 2016

Location: Bern, Switzerland

The traditional international exhibition WORLDDIDAC will be held in conjunction with a global conference on education.

5.5 H2020 Proposal Development Courses

Europa Media Trainings Ltd. (https://www.eutrainingsite.com) organizes regularly a 2-day Horizon 2020 Proposal Development training course with hands-on workshops focusing on developing and submitting competitive proposals in response to a topic call. The course attendees learn to develop their proposal concept step-by-step: defining objectives, designing an effective work plan with work packages, creating illustrative charts and diagrams, defining an ideal consortium, elaborating on impact and exploitation issues, and putting together a realistic budget. The last training course took place on 26-27 November 2015 in Brussels.

5.6 Seminars given by National Contact Point in Czech Republic

The National Information Centre for European Research (NICER), run by Technology Centre of Academy of Sciences, Czech Republic, organizes information seminars about the opportunities involved in EU Framework Programme for Research, Development and Innovation - Horizon 2020, publishes specialized publications and an electronic newsletter and operates an information portal: www.h2020.cz

5.7 DAAD Information Days in Czech Republic

Information centre DAAD Prague (http://www.daad.cz) organizes every year in autumn workshops at the main Czech universities in Prague, Brno, Ostrava, Pilsen, Olomouc, Liberec, České Budějovice where are presented all activities of DAAD. Additionally, some specific information days or lectures are made within the year. The last workshop in Brno took place on 5 November 2015.

5.8 Norway Grants Information Days in Czech Republic

The Centre for International Cooperation in Education (http://www.dzs.cz/en/; in Czech original "Dům zahraniční spolupráce - DZS") and The Czech Academy of Sciences organize in selected institutes informative workshops about Norway Grants and EEA Grants (Norway, Iceland, Liechtenstein). Presenters are representatives of Norway Grants together with coordinators of recent projects. The workshops are public, however a registration in advance is needed. The last workshop took place on 27 October 2015 in Prague.