

Funding opportunities: The Research Council of Norway and EU Horizon 2020

«Math meets Industry» Trondheim 23. Sept. 2016

Per Magnus Kommandantvold, NCP in Norway for Marie Skłodowska-Curie actions (MSCA), The European Research Council (ERC). Contact for The European Institute of Innovation and Technology (EIT)



NYHETER

- Nyhetsbrev
- Forskningsrådets filmer

Norske elever fikk førstepris i den europeiske konkurransen for unge forskere.

Ane Espeseth og Torstein Vik fra Ålesund vant førsteprisen for sitt matematikkprosjekt under den prestisjefylte European Union Contest for Young Scientists.

European Union Contest for Young Scientists (EUCYS) er en årlig forskningskonkurranse arrangert av EU. Den har pågått siden 1989 og ble i år arrangert i Brussel. Deltakerne har vunnet sine nasjonale forskningskonkurranser, og Norge sender hvert år førsteprisvinnere til konkurransen.



Ane Espeseth og Torstein Vik fra Ålesund vant førsteprisen for sitt matematikkprosjekt under den prestisjefylte EU Contest for Young Scientists. (Foto: Kamil Bielinski)

- At Ane og Torstein vinner førsteprisen i denne klassen er stort, og særlig at det er matematikk, sier Sissel Holmern, som leder Forskningsrådets tiltak Proscientia, og er ansvarlig for gjennomføringen av Konkurransen Unge Forskere.

Espeeth (18) og Vik (17) vant i april klassen for naturvitenskap og teknologi i Konkurransen Unge Forskere med prosjektet "Motivic Symbols and Classical Multiplicative Functions".

Andre nettsider

- > [European Union Contest for Young Scientists 2016](#)
- > [Konkurransen Unge Forskere 2016: Unge forskere fikk priser](#)
- > [Proscientia](#)

Del



Youngsters win 1.st
prize in #EUCYS
with maths project

Research careers and funding: Why, what, how, when?



Funding for collaboration

- «everybody» must find funding
- Mohammad goes to the mountain... try to adapt to the requirements
- Follow instructions, seek help
- Plan ahead, start early

Independent projects at The Research Council of Norway – FRIPRO

VISION

FRIPRO: Quality, boldness in thinking and scientific renewal

FRIPRO
should
promote:

Scientific quality at the forefront
of international research

Boldness in scientific thinking
and innovation

Careers for young research
talents

Is FRIPRO for you?

- Are you among the best researchers within your field?
- Do you have an outstanding project?
- Is your idea new?
- Is your proposal well-written?

Which application type best suits you?

- **FRIPRO mobility grants**
 - 0-6 years after PhD
 - Two years abroad, third year in Norway
- **Young Research Talents**
 - 2-8 years after PhD
 - PI up to 39 years old
 - 4-8 MNOK
- **Researcher Project**
 - 6+ years after PhD
 - 5-10 MNOK



- **FRIPRO Toppforsk**
(joint funding, calls only in 2015 and 2017)
 - 6+ years after PhD
 - 15-25 MNOK (tbd)
 - Not leaders of CoE or ERC AdG

Smaller funding options in FRIPRO

- Personal Overseas Research Grant
 - For PhD and post-doctoral fellows funded through an ongoing FRIPRO project.
- Support for events
 - Partial funding for major international research conferences that rotate between countries.

Two-stage decision process

Expert panels evaluate and rank proposals

- 40 panels with 200 experts



Granting committees select proposals for funding

- Humanities and Social Sciences (FRIHUMSAM)
- Mathematics, Physical Sciences and Technology (FRINATEK)
- Medicine, Health Sciences and Biology (FRIMEDBIO)

How do you write a good FRIPRO proposal?

- Read the call for proposals carefully – all pages!
- Read the FRIPRO webpages
 - Tip: the assessment criteria the expert panels assess your proposal on are available online
- Start writing your proposal early
- Ask for help
- Listen to comments from expert panels from previous years
- Submit your proposal early
 - We will only see the last version you submit

Read more on the FRIPRO webpages

- www.forskningsradet.no/fripro
(In Norwegian and English)
 - About FRIPRO
 - Application types
 - How to apply for funding
 - Assessment of applications
 - ...
- Subscribe to the FRIPRO newsletter
 - FRIPRO webpages (Norwegian version) – News - Newsletter

FRIPRO Mobility Grant

- All research field
- 0-6 years after PhD
- 2 years abroad + 1 year in Norway
- Open for all Norwegian research institutions
- The Norwegian institution will be the employer during the whole fellowship
- Collaboration agreement with the institution abroad
- Open to PIs of all nationalities
- Calls in 2014, 2015, 2016
- 14 fellowships/call

FRIPRO

- Common call deadline
- Common evaluation process

25. May 2016

Other application types:

- Young Research Talents
- Researcher projects



Co-funded by the
FP7 Marie Curie COFUND
action of the
European Union

For more information about all application types:

<http://www.forskningsradet.no/fripro>

The Industrial Ph.D. Scheme (Nærings-ph.d.)

- An 'ordinary' doctoral degree.
- The candidate is employed by a company throughout the whole project period.
- Open to all subject areas and sectors
- The company receives the funding (ca. 1,6 mil NOK over 3 or 4 years + support for lab related activities for SMEs)
- The candidate spends at least one year at the degree-conferring institution.
- Alternativ to/supplementary to bigger R&D-projects
- Open-ended submission deadline
- www.nfr.no/naeringsphd




Public sector PhD

- Public sector institutions apply
 - The need for expertise, relevance of the project, as well as implementation ability must be documented
 - Must enter agreement with degree-awarding institution
 - Level of quality secured through acceptance at doctoral programmes at degree-awarding institution
- The fellow
 - Must be employed by the public sector institution when applying
 - Will work on the project 100% for three years or 75% for four years
 - Must spend at least one year each at both institutions
- The Research Council will cover a maximum of 50%, limited upwards to 50% of current reimbursement levels
- Continuous reception of proposals
- <http://www.forskningsradet.no/prognett-offphd/Forside/1253996824479>



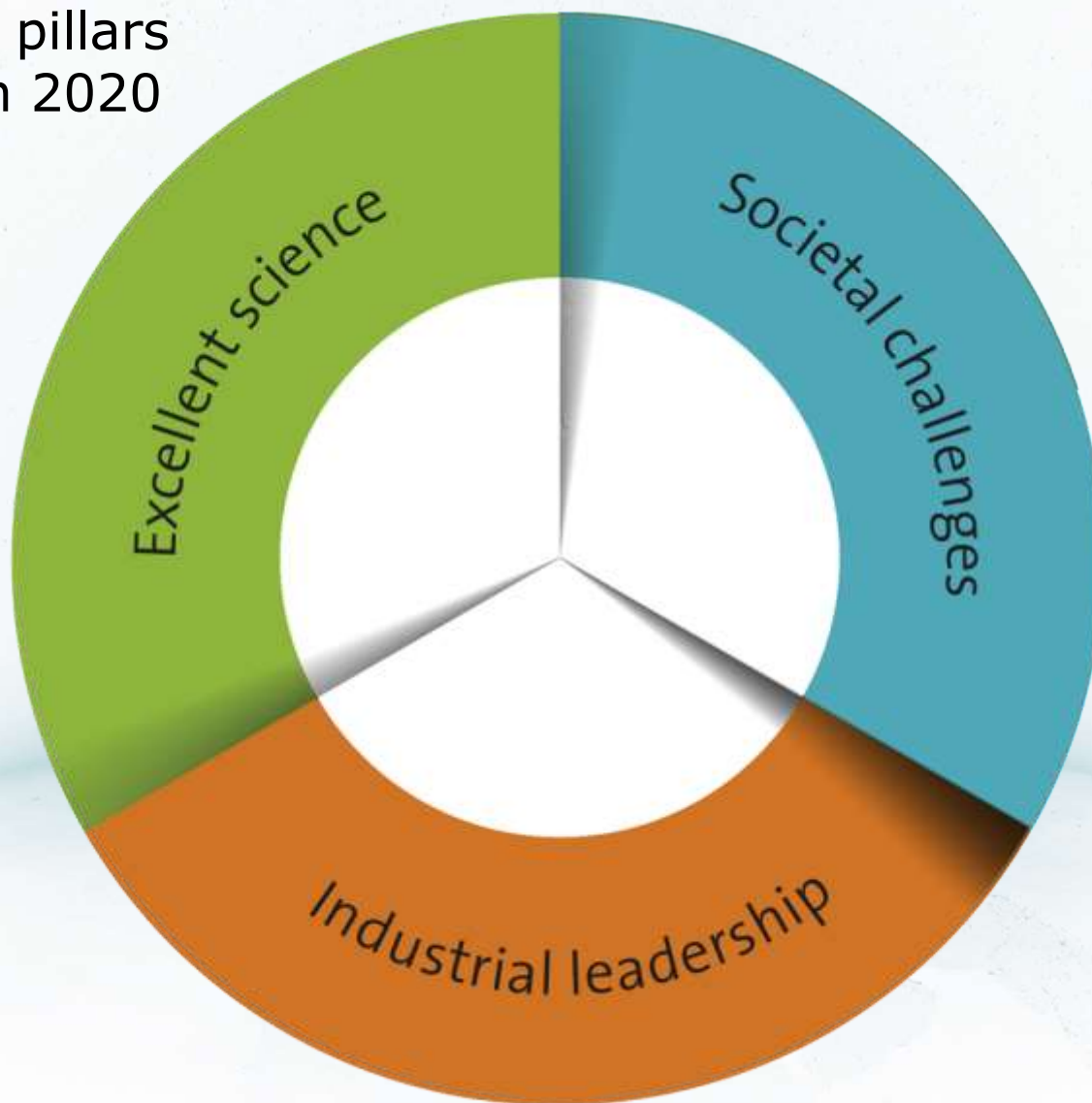
What is Horizon 2020?



Horizon 2020 will use three core themes to maintain Europe's position as one of the world's leading innovative regions:

+

The three pillars of Horizon 2020





We are here to help

National Contact Points (NCP)



NCP for each thematic area under Horizon 2020

Contact:

www.forskningradet.no/horizont2020

+

Funding is
available for
the following:



HORIZON 2020

INTERDISCIPLINARITY / VALUE CHAINS / COOPERATION / QUALITY / INNOVATION

WHAT DO YOU WANT TO USE IT FOR?



Excellent Science

European Research Council
(ERC)

Future & Emerging
Technologies (FET)

Marie Skłodowska Curie
Actions

Research Infrastructures

Competitive Industries

Innovation in SMEs

Access to Risk Finance

Leadership in Enabling and
Industrial Technologies

Better Societies (Societal Challenges)

Health, demographic change
and wellbeing

Food security, sustainable
agriculture, forestry, marine,
maritime, inland water and
bio-economy

Secure, clean and efficient
energy

Smart, green and integrated
transport

Climate action,
environment, resource
efficiency and raw materials

Inclusive, innovative and
reflective societies

Secure societies

CAREER TRACK



0–2 YEARS
AFTER PHD



2–7 YEARS
AFTER PHD



7–12 YEARS
AFTER PHD



VERY
EXPERIENCED
RESEARCHER



THE RESEARCH
COUNCIL OF
NORWAY

2–8 YEARS AFTER PHD
FRIPRO Young Research Talents

0–6 YEARS AFTER PHD
FRIPRO Mobility Grant

> 6 YEARS AFTER PHD
FRIPRO Researcher project

EUROPEAN
RESEARCH
COUNCIL

2–7 YEARS AFTER
Starting Grant

7–12 YEARS AFTER
Consolidator Grant

TEN YEAR TRACK RECORD
Advanced Grant

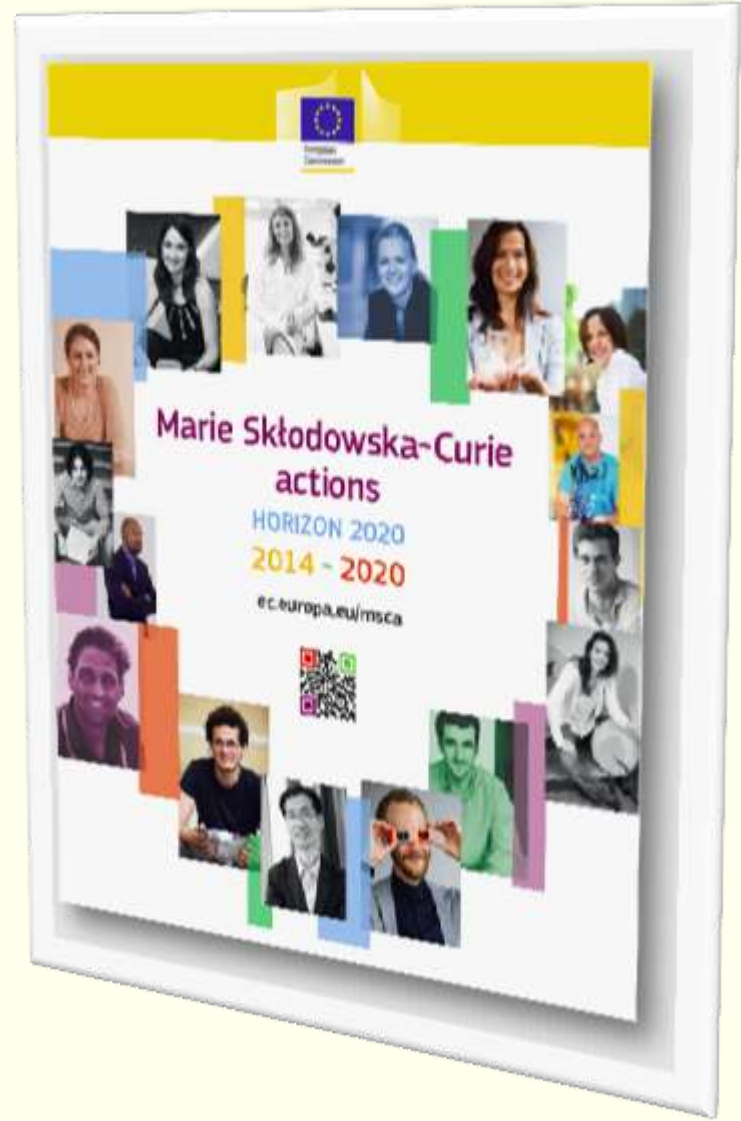
EU

MARIE SKŁODOWSKA-CURIE ACTIONS

Marie Skłodowska-Curie Actions

Key features

- Open to **all domains of research and innovation (SH-panel)**
- Entirely **bottom-up**, you decide topic
- **Mobility** as the key requirement
- Particular attention to **gender** balance
- **Public engagement** of supported researchers
- Participation of **non-academic sector** strongly encouraged, especially industry and SMEs



Marie Skłodowska-Curie Actions



ITN Innovative Training Networks

What does it offer?

High-quality research training delivered through interdisciplinary networks, industrial doctorates or joint doctorates.

Who applies?

International networks of research organisations from the academic and non-academic sectors

Who is funded?

Researchers at doctoral level (less than 4 years of full-time research experience and no doctoral degree)

Call details:

Opens: 15 September 2016
Closes: 10 January 2017
at 17:00:00 Brussels time
Budget: 430M€



IF Individual Fellowships

What does it offer?

Opportunities to work on personal research projects by moving between countries and possible sectors to acquire new skills.

Who applies?

Individual researchers together with the host organisations

Who is funded?

Postdoctoral researchers

Call details:

Opens: 11 April 2017
Closes: 14 September 2017
at 17:00:00 Brussels time
Budget: 248M€



RISE Research & Innovation Staff Exchange

What does it offer?

The exchanges of staff members involved in research and innovation to develop sustainable collaborative projects and the transfer of knowledge.

Who applies?

International networks of research organisations from the academic and non-academic sectors

Who is funded?

Researchers, technical administrative and managerial staff of any nationality and at all career levels

Call details:

Opens: 1 December 2016
Closes: 5 April 2017
at 17:00:00 Brussels time
Budget: 80M€



COFUND Co-Funding of Regional, National & International Programmes

What does it offer?

Regional national or international programmes to foster excellence in training mobility and career development of researchers

Who applies?

Organisations funding or managing doctoral or fellowships programmes

Who is funded?

Researchers at doctoral and postdoctoral level

Call details:

Opens: 5 April 2017
Closes: 28 September 2017
at 17:00:00 Brussels time
Budget: 80M€



Innovative Training Networks (ITN)

ITN – Three options

European Training Networks (ETN)

- Minimum 3 beneficiaries
- Minimum 3 countries
- Up to 540 ESR months

European Industrial Doctorates (EID)

- Minimum 1 academic and 1 non-academic beneficiary
- Minimum 2 countries
- Up to 180 ESR months (540 if 3 or more beneficiaries)

European Joint Doctorates (EJD)

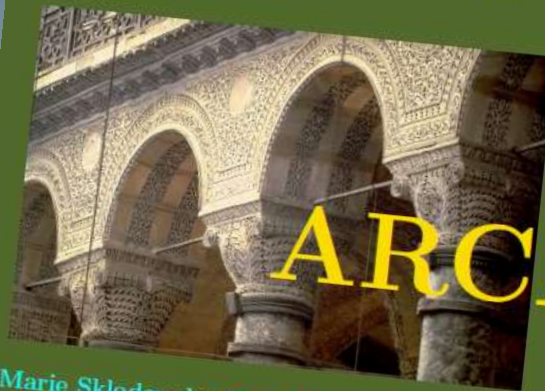
- Minimum 3 academic beneficiaries
- Minimum 3 countries
- Up to 540 ESR months

Common features:

- Only Early Stage Researchers (ESR) recruited
- Maximum project length = 48 months
- Maximum ESR contract length = 36 months
- Collaboration between academic and non-academic sectors essential

Salaries++ for phd-students

Algebraic Representations in Computer-Aided Design for complex Shapes



ARCADES

Marie Skłodowska-Curie European Training Network
Jan. 2016 – Dec. 2019

Members:

ATHENA Research Center (GR, coordinator),
U. Barcelona (ES), INRIA (FR),
J. Kepler U. Linz (AT), SINTEF (NO),
U. Strathclyde (UK), T.U. Wien (AT),
Evolute GmbH (AT).

Industrial partners:

Hellenic Registry of Shipping (GR),
Hue AS (NO), Missler Software (FR),
RISC-Software (AT), TranscenData (UK).

13 Open Phd Positions

<http://arcades-network.eu>
(athena@athena-innovation.gr)

ARCADES aims at disrupting the traditional paradigm in Computer-Aided Design (CAD) by exploiting cutting-edge research in mathematics and algorithm design. Geometry is now a critical tool in a large number of key applications; somewhat surprisingly, however, several approaches of the CAD industry are outdated, and 3D geometry processing is becoming increasingly the weak link. This is alarming in sectors where CAD faces new challenges arising from fast point acquisition, big data, and mobile computing, but also in robotics, simulation, animation, fabrication and manufacturing, where CAD strives to address crucial societal and market needs. The challenge taken up by ARCADES is to invert the trend of CAD industry lagging behind mathematical breakthroughs and to build the next generation of CAD software based on strong foundations from algebraic geometry, differential geometry, scientific computing, and algorithm design. Our game-changing methods lead to real-time modelers for architectural geometry and visualisation, to isogeometric and design-through-analysis software for shape optimisation, and marine design & hydrodynamics, and to tools for motion design, robot kinematics, path planning, and control of machining tools. These areas correspond to topics for the 13 PhD theses to be undertaken at ARCADES member teams.



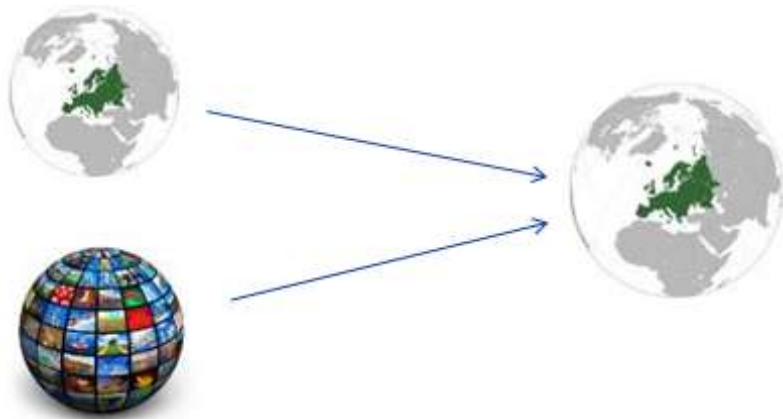
European
Commission

Horizon 2020
European Union funding
for Research & Innovation



Individual Fellowships (IF)

Individual Fellowships (IF)



European Fellowships

- 12 -24 months
- From all countries to Europe (MS/AC)

Global Fellowships




- 12 -24 months, plus 12 months return phase
- For European researchers*

Salaries for experienced/postdoctoral researchers


Typical activities of an Individual Fellowship


- Mobility
- Training activities
 - Secondments
- Communication and Dissemination
- Public engagement
- Gender issues








THE MARIE SKŁODOWSKA-CURIE ACTIONS: Individual Fellowships 'Society and Enterprise' Panel








VISIT US ON:






Our website








Host organisations from non-academic sector only (e.g. businesses, civil society and government bodies)




€10 million funding to boost participation



For experienced researchers - fellowships of 1-2 years






Call opens: 12/04/2016; Deadline: 14/09/2016





All domains of research and innovation are eligible for funding (except areas of research covered by the Euratom treaty).

Benefits for host organisations

-  - Recruitment of highly skilled researchers;
-  - Employers costs included
-  - Transfer of cutting edge science and innovation into your organisation

"Participating in the 'Individual Fellowships' allowed us to attract academic talent to our company, to enlarge our international networks and to transfer research results into the business sector."
Dr. Carmen Artal, Head of Advanced Materials Technology, BSH Electrodomésticos España (Spain)


Benefits for researchers


-  - Increase your career prospects outside academia through the acquisition of new skills and expertise
-  - 100% Funding
- Recognition of excellent science: MSCA funding is a prestigious award

"The Marie Curie Fellowship allowed me to smoothly transition from an academic research position to an industry setting. Research in industry can come with some constraints but also offers great opportunities, such as seeing your research project developed into a product."
Dr. Alexander KARATZOGLOU (Greece), Marie Curie fellow.

<http://ec.europa.eu/msca>

NB: Non-Contractual document, please consult the call documentation for full eligibility conditions and call details.





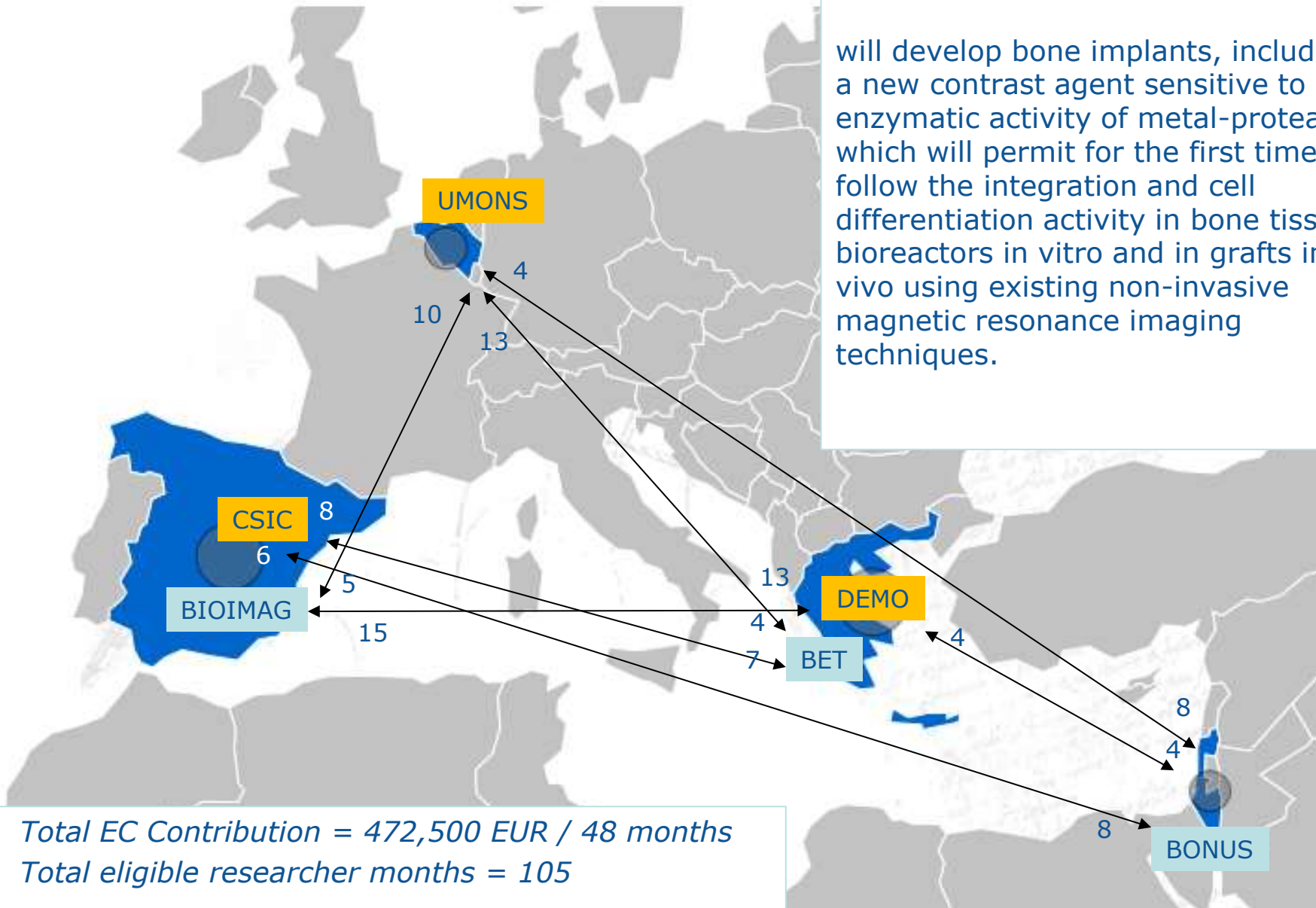


Research and Innovation Staff Exchange (RISE)

Research and Innovation Staff Exchange (RISE)



- Objective
 - to promote international and inter-sector collaboration through research and innovation staff exchanges
- Scope
 - International and inter-sector collaboration and transfer of knowledge
 - Joint research and innovation project
 - Secondments of staff members for 1-12 months
 - Within Europe: only inter-sector secondments
 - No secondments between institutions located outside Europe or within the same MS/AC
- Expected Impact
 - to strengthen the interaction between organisations in the academic and non-academic sectors, and between Europe and third countries



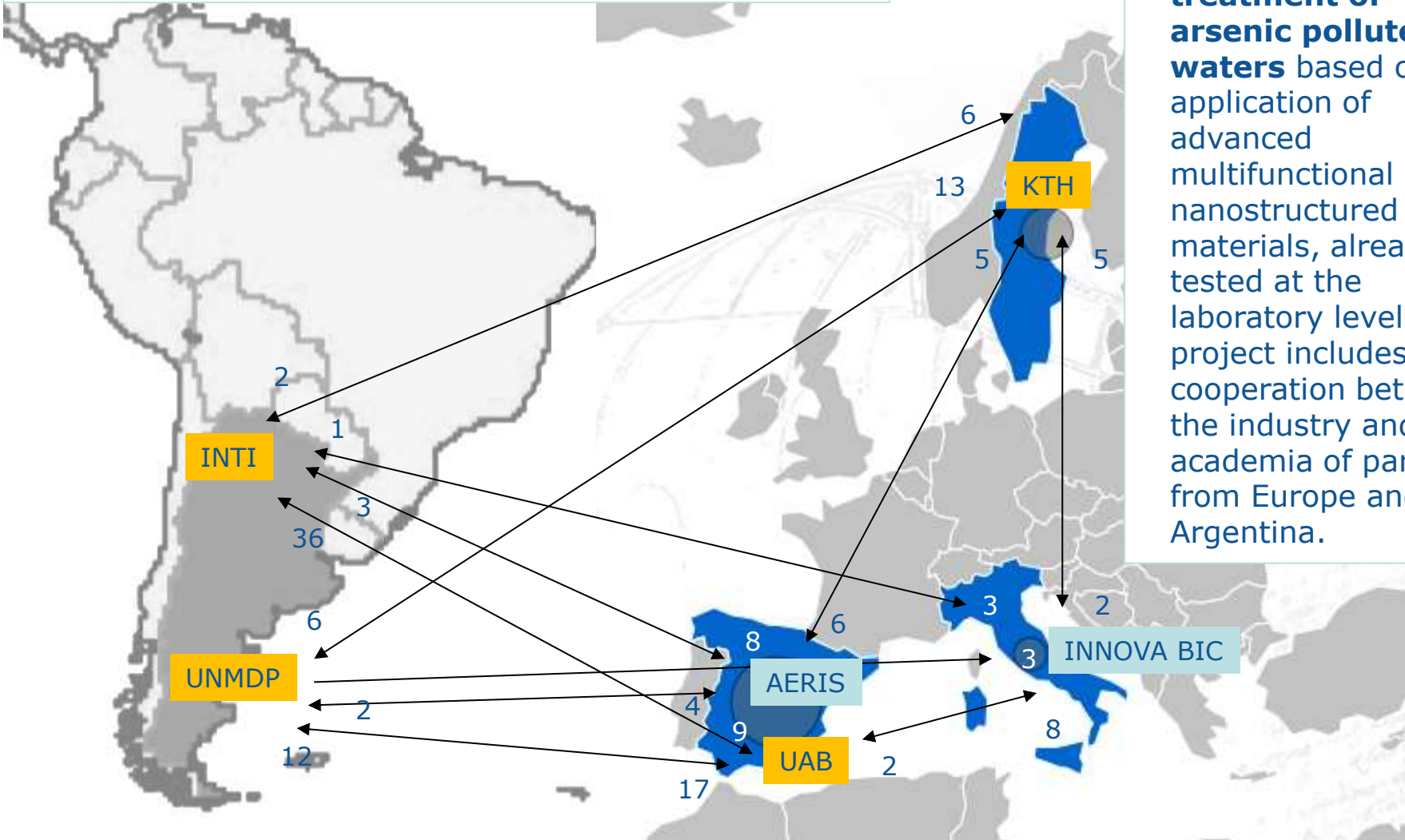
will develop bone implants, including a new contrast agent sensitive to enzymatic activity of metal-proteases, which will permit for the first time to follow the integration and cell differentiation activity in bone tissue bioreactors in vitro and in grafts in vivo using existing non-invasive magnetic resonance imaging techniques.

Total EC Contribution = 472,500 EUR / 48 months
Total eligible researcher months = 105



Total EC Contribution = 688,500 EUR / 48 months
Total eligible researcher months = 153

will develop and implement a **pilot plant for the remote treatment of arsenic polluted waters** based on the application of advanced multifunctional nanostructured materials, already tested at the laboratory level. The project includes the cooperation between the industry and academia of partners from Europe and Argentina.



This is where you find all available vacant positions (ITN, COFUND, ERC +++)

<http://ec.europa.eu/euraxess/index.cfm/general/index>



The screenshot shows the EURAXESS website homepage. At the top left is the EURAXESS logo with the tagline 'RESEARCHERS IN MOTION'. To the right, a text block describes EURAXESS as a unique pan-European initiative providing access to a complete range of information and support services to researchers wishing to pursue their research careers in Europe or stay connected to it.

Below the main text are two promotional banners. The left banner says 'join in now!' with the URL 'ec.europa.eu/euraxess/science4refugees' and the 'science4refugees' logo. The right banner features icons for SMEs, PHDs, and H2020 SME Innovation Associate.

The main content area is divided into four colored boxes with arrows pointing right:

- JOBS** (blue box): Employers and funders have jobs and fellowships up for grabs. [See who's offering what](#)
- SERVICES** (orange box): Seeking personalised assistance or advice when relocating? [Get in touch with one of the hundreds of professionals here to support you and your family!](#)
- RIGHTS** (purple box): Did you know that hundreds of institutions are doing their best to improve your working environment? [See who does what!](#)
- LINKS** (teal box): Are you a European researcher working outside Europe? Or are you a non-European researcher wishing to come to Europe? [Discover what opportunities are available!](#)

At the bottom, there are four small images: a group of scientists in a lab, a family sitting on a sofa with a laptop, a woman smiling in an office setting, and a scientist working with a microscope in a lab.



European Research Council

Established by the European Commission



Creative ideas have no limits

ERC, funding blue sky research

The European Research Council (ERC)

Starting Grants

starters
(2-7 years after PhD)
up to € 1,5 Mio
for 5 years

Consolidator Grants

consolidators
(7-12 years after PhD)
up to € 2,0 Mio
for 5 years

Advanced Grants

track-record of
significant research
achievements in the
last 10 years
up to € 2,5 Mio
for 5 years

Synergy Grants

2 – 4 *Principal* Investigators
up to € 15.0 Mio for 6 years
NB! Discontinued...

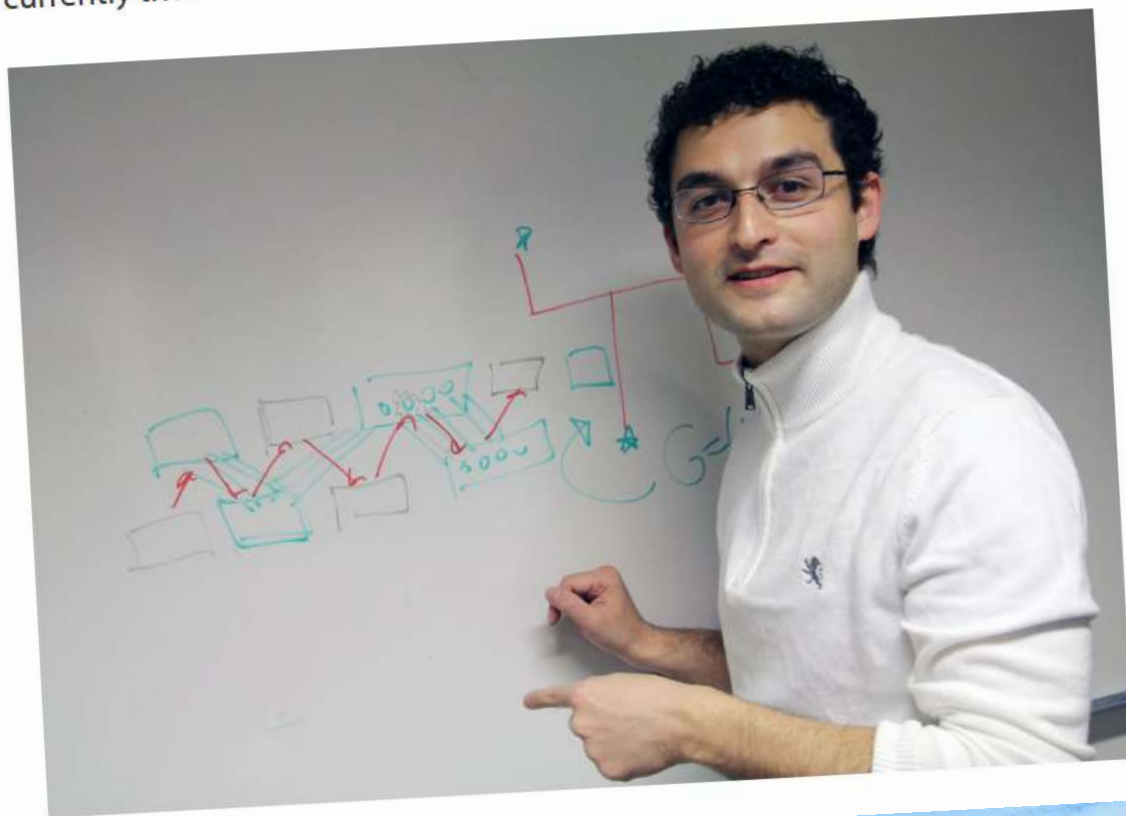
Proof-of-Concept

bridging gap between research - earliest
stage of marketable innovation
up to €150,000 for ERC grant holders

NEWS

Informatics researcher grabs top EU grant

Daniel Lokshantov has been awarded the prestigious Starting Grant from the European Research Council. He is currently the third researcher at the University of Bergen to hold such a grant.



EUROPEAN SUCCESS: Informatics researcher Daniel Lokshantov from the Algorithms Group at the University of Bergen has become the third researcher to currently hold a Starting Grant from the European Research Council. Photo: Solfrid Langeland, University of Bergen

ERC Starting grant to Marie E. Rognes

23 AUGUST 2018

Les artikkelen på norsk



Head of the Biomedical Computing Department, Marie E. Rognes, has been awarded the very prestigious ERC Starting Grant. Only seven Norwegian researchers has achieved this so far in Horizon 2020, and only a total of 19 ERC grants have been awarded to Norwegian researchers. Securing an ERC Starting Grant is a significant recognition of Marie E. Rognes and her research, and marks a milestone for Simula in EU research. Marie E. Rognes will receive EUR 1.5 million over the next five years in order to conduct the "Waterscales" project.

MOBILITY AND NETWORKING



FRIPRO Mobility Grant
Individual fellowships



Marie Skłodowska-Curie
Training and mobility



Research Infrastructures
Transnational access



COST actions
Network funding

Research Infrastructures – Transnational Access



- *Transnational Access*-funding:
 - Funding from «Integrating Activities» in the RI-programme to give access to external researchers to the infrastructures/facilities belonging to a project
 - Can cover travel, subsistence, training and user costs
 - Calls are published on the web-pages of the individual projects (not through the H2020 participant portal)
- Find information on projects and calls for *Transnational Access* at: http://www.rich2020.eu/tas_calls

MOBILITY AND NETWORKING



FRIPRO Mobility Grant
Individual fellowships



Marie Skłodowska-Curie
Training and mobility



Research Infrastructures
Transnational access



COST actions
Network funding



- Finance for networks
- Open to all scientific areas
- The networks - COST Actions
 - must have a clear objective
- Funds meetings, short research visits and conferences, but NOT the research
- Open – researchers from all member countries can sign up for new networks
- Two annual deadlines

- 
- EU 28
 - EU Candidates and Potential Candidates:
 - Bosnia and Herzegovina
 - FYR Macedonia
 - Iceland
 - Serbia
 - Turkey
 - Other Countries:
 - Norway and Switzerland
 - COST Cooperating State:
 - Israel

Norwegian COST-contact: Trude
Dypvik, Forskningsrådet tdy@rcn.no

More info: www.cost.eu and on Forskningsrådets web

Top-up financing for outgoing MSCA fellows

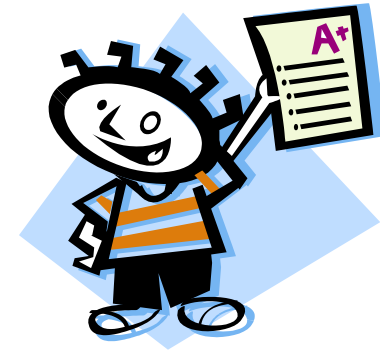
Aim: To stimulate those who have not yet been mobile

- MSCA Individual fellowship (12-24 months)
 - PhD from Norwegian university
- MSCA Innovative Training Networks (3 – 36 months)
 - MSc or similar from Norwegian university
- Must have spent at least 5 of the previous 8 years in Norway
- Overseas research grant
 - Country Correction Coefficient (CCC) for host country applies (MSCA Work Programme)
 - Full grant for up to 12 months, 50% for the rest of the time
- No deadline, remember this top-up must into contract host has with the EC
- Assessed by the administration
- Open for contracts signed from 2016



Call opened in
June 2016

Støtte til ERC søkere som har kommet til runde 2, men ikke fått penger



- Starting Grant (StG), Consolidator Grant (CoG) eller Advanced Grant (AdG)
- Inntil 500.000 kr til forbedring av søknaden
 - Lønnsmidler til PI
 - Direkteutgifter til eksperimenter og innhenting av data
 - Reise, konferanseutgifter og forskningsopphold for PI
- Ny søknad til første eller andre frist etter at resultatet er kjent
- Utlyst under FRIPRO (ny felles-side)
 - Løpende søknadsfrist
 - Bare utgifter påløpt fra innsendt støtte-søknad
 - Behandles administrativt
 - Utbetales etterskuddsvis



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