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

Per Magnus Kommandantvold, NCP in Norway for Marie Sklodowska-Curie actions (MSCA), The European Research Council (ERC). Contact for The European Institute of Innovation and Technology (EIT)
Youngsters win 1.st prize in #EUCYS with maths project
Research careers and funding: Why, what, how, when?

- «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](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
- 14 fellowships/call

FRIPRO

- Common call deadline
- Common evaluation process

25. May 2016

For more information about all application types:
http://www.forskningsradet.no/fripro

Co-funded by the FP7 Marie Curie COFUND action of the European Union
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](http://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](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

- Excellent science
- Societal challenges
- Industrial leadership
We are here to help
National Contact Points (NCP)

NCP for each thematic area under Horizon 2020

Contact:
www.forskningsradet.no/horisont2020
Funding is available for the following:

- Implementing projects
- Exerting influence on processes and calls for proposals
- Writing grant proposals
- Positioning
- Project Establishment Support
HORIZON 2020
INTERDISCIPLINARITY / VALUE CHAINS / COOPERATION / QUALITY / INNOVATION
WHAT DO YOU WANT TO USE IT FOR?
3 pillars in Horizon 2020

**Excellent Science**
- European Research Council (ERC)
- Future & Emerging Technologies (FET)
- Marie Sklodowska 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

FRIPRO Mobility Grant

2−7 YEARS AFTER PHD

Starting Grant

7−12 YEARS AFTER PHD

Consolidator Grant

> 6 YEARS AFTER PHD

FRIPRO Researcher project

THE RESEARCH COUNCIL OF NORWAY

EUROPEAN RESEARCH COUNCIL

EU

MARIE SKŁODOWSKA-CURIE ACTIONS

TEN YEAR TRACK RECORD

Advanced Grant

SOURCE: THE RESEARCH COUNCIL OF NORWAY
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€

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**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€

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**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€

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**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**

<table>
<thead>
<tr>
<th>European Training Networks (ETN)</th>
<th>European Industrial Doctorates (EID)</th>
<th>European Joint Doctorates (EJD)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Minimum 3 beneficiaries</td>
<td>Minimum 1 academic and 1 non-academic beneficiary</td>
<td>Minimum 3 academic beneficiaries</td>
</tr>
<tr>
<td>Minimum 3 countries</td>
<td>Minimum 2 countries</td>
<td>Minimum 3 countries</td>
</tr>
<tr>
<td>Up to 540 ESR months</td>
<td>Up to 180 ESR months (540 if 3 or more beneficiaries)</td>
<td>Up to 540 ESR months</td>
</tr>
</tbody>
</table>

**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

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:
Helipic Registry of Shipping (GR),
Finn AS (NO), Missler Software (FR),
RISC-Software (AT), Transcendata (UK).

13 Open PhD Positions
http://aracades-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 in the CAD industry are outdated, and 3D geometry processing is becoming increasingly a weak link. This is a problem in sectors where CAD faces new challenges arising from real-time acquisition, big data, and mobile computing, but also in robotics, simulation, animation, fabrication and manufacturing, where CAD strives to address crucial scaling and market needs. The challenge taken up by ARCADES is to build the next generation of CAD software based on strong foundations from algebraic geometry, differential geometry, and algorithm design. Our game-changing methods lead to real-time, geometry-aware engineering, and algorithm design for architectural geometry and visualisation, for geometric and design-through-analysis tools for shape optimisation, and for 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 farms.
Individual Fellowships (IF)
Individual Fellowships (IF)

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

- 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
NEW!

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

**Benefits for host organisations**
- Recruitment of highly skilled researchers;
- Employers costs included;
- Transfer of cutting edge science and innovation into your organisation

**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

"Participating in the Individual Fellowships allowed us to attract excellent students, company leaders, and international networks and to ensure research carried out by the business sector." — Dr. Carmen Ato, Head of Advanced Materials Technology, 8th Fuel Cell European Project (Spain)

http://ec.europa.eu/msca

Call opens 24/04/2016
Deadline 14/09/2016

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

NANOREMOVAS 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
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
Informatics researcher grabs top EU grant

Daniel Lokshtanov 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.
ERC Starting grant to Marie E. Rognes

22 August 2021

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 15 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 “VAT4Selfies” project.
MOBILITY AND NETWORKING

- FRIPRO Mobility Grant
  *Individual fellowships*

- Marie Skłodowska-Curie
  *Training and mobility*

- Research Infrastructures
  *Transnational access*

- COST actions
  *Network funding*

SOURCE: THE RESEARCH COUNCIL OF NORWAY
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)
MOBILITY AND NETWORKING

- FRIPRO Mobility Grant
  Individual fellowships

- Marie Skłodowska-Curie
  Training and mobility

- Research Infrastructures
  Transnational access

- COST actions
  Network funding

SOURCE: THE RESEARCH COUNCIL OF NORWAY
- 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

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
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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Subscribe at:

www.forskningsradet.no/nyheter

www.forskningsradet.no/horisont2020
Marie Skłodowska-Curie actions and the ERC

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