

## NEW CALLS FOR RESEARCH PROJECTS

<b>1</b>	
<b>Programme</b>	Food security, sustainable agriculture and forestry, marine and maritime and inland water research
<b>Title</b>	H2020 - BIO BASED INDUSTRIES PPP - H2020-BBI-PPP-2014-1
<b>Code</b>	H2020-BBI-PPP-2014-1
<b>Research areas</b>	Health, Food, Environment, Research & Development, Agriculture
<b>Funding Institution</b>	EUROPEAN COMMISSION - DIRECTORATE GENERAL FOR RESEARCH & INNOVATION
<b>Date of publication</b>	14/07/2014
<b>Submission deadline</b>	<b>15/10/2014</b>
<b>More information</b>	<a href="http://ec.europa.eu/research/participants/portal/desktop/en/opportunities/h2020/calls/h2020-bbi-ppp-2014-1.html">http://ec.europa.eu/research/participants/portal/desktop/en/opportunities/h2020/calls/h2020-bbi-ppp-2014-1.html</a>
<b><u>Summary</u></b>	

**2**

<b>Programme</b>	Leadership in enabling and industrial technologies (LEIT)
<b>Title</b>	H2020 - ECSEL CALL 2014-1 RESEARCH AND INNOVATION ACTIONS -ECSEL-2014-1
<b>Code</b>	ECSEL-2014-1
<b>Research areas</b>	Research & Development
<b>Funding Institution</b>	EUROPEAN COMMISSION - DIRECTORATE GENERAL FOR RESEARCH & INNOVATION
<b>Date of publication</b>	14/07/2014
<b>Submission deadline</b>	<b>17/09/2014</b>
<b>More information</b>	<a href="http://ec.europa.eu/research/participants/portal/desktop/en/opportunities/h2020/calls/ecsel-2014-1.html">http://ec.europa.eu/research/participants/portal/desktop/en/opportunities/h2020/calls/ecsel-2014-1.html</a>

### **Summary**

Topics called:

ECSEL-01-2014: ECSEL Key Applications and Essential Technologies (RIA)

ECSEL is a partnership between the private and the public sectors for advancing the state-of-the art in electronic components and systems. There are two concurrent ECSEL calls in 2014, both are single stage (FPP only). This call ECSEL-2014-1 is for ECSEL Research and Innovation Actions.

For additional information, please also visit the ECSEL JU website:

<http://www.ecsel.eu/Call2014.html>

**3**

<b>Programme</b>	Leadership in enabling and industrial technologies (LEIT)
<b>Title</b>	H2020 - ECSEL CALL 2014-2 INNOVATION ACTIONS - ECSEL-2014-2
<b>Code</b>	ECSEL-2014-2
<b>Research areas</b>	Research & Development
<b>Funding Institution</b>	EUROPEAN COMMISSION - DIRECTORATE GENERAL FOR RESEARCH & INNOVATION
<b>Date of publication</b>	14/07/2014
<b>Submission deadline</b>	<b>17/09/2014</b>
<b>More information</b>	<a href="http://ec.europa.eu/research/participants/portal/desktop/en/opportunities/h2020/calls/ecsel-2014-2.html">http://ec.europa.eu/research/participants/portal/desktop/en/opportunities/h2020/calls/ecsel-2014-2.html</a>

**Summary**

Topics called:

ECSEL-02-2014: ECSEL Key Applications and Essential Technologies (IA)

ECSEL is a partnership between the private and the public sectors for advancing the state-of-the-art in electronic components and systems. There are two concurrent ECSEL calls in 2014, both are single stage (FPP only). This call ECSEL-2014-2 is for ECSEL Innovation Actions.

For additional information, please also visit the ECSEL JU website:

<http://www.ecsel.eu/Call2014.html>

<b>4</b>	
<b>Programme</b>	Health, demographic change and wellbeing
<b>Title</b>	H2020 - IMI2 1ST CALL FOR PROPOSALS 2014 - H2020-JTI-IMI2-2014-01
<b>Code</b>	H2020-JTI-IMI2-2014-01
<b>Research areas</b>	Health
<b>Funding Institution</b>	EUROPEAN COMMISSION - DIRECTORATE GENERAL FOR RESEARCH & INNOVATION
<b>Date of publication</b>	14/07/2014
<b>Submission deadline</b>	<b>12/11/2014</b>
<b>More information</b>	<a href="http://ec.europa.eu/research/participants/portal/desktop/en/opportunities/h2020/calls/h2020-jti-imi2-2014-01.html">http://ec.europa.eu/research/participants/portal/desktop/en/opportunities/h2020/calls/h2020-jti-imi2-2014-01.html</a>
<b><u>Summary</u></b>	
<p>Topics called:            IMI2-2014-01-01: Translational approaches to disease modifying therapy of Type 1 Diabetes Mellitus (T1DM)            Specific challenge: Type 1 diabetes mellitus (T1DM) is a chronic disease affecting worldwide around 17 Million people. The disease T1DM may present at any age, but most typically presents in early life with a peak around puberty. The incidence rate is highest in Europe affecting altogether 22 /100.000 per year, with major regional differences and an overall 25% higher incidence rate than in the US (www.diapedia.org). The rising incidence of T1DM appears to be explained by faster conversion from islet-antigen seropositivity to manifest <math>\beta</math>-cell failure. However, the scientific insights to the triggering events, disease susceptibilities, and subsequent pathophysiological events leading to failing <math>\beta</math>-cell function &amp; beta cell loss in human disease are quite limited. Rational disease modifying therapeutic approaches to address T1DM are lacking.            Please refer to the full topic text on the IMI2 Call 1 section of the IMI website:  <a href="http://www.imi.europa.eu/content/stage-1-13">http://www.imi.europa.eu/content/stage-1-13</a>            Scope: The overall aim of the project is to significantly progress the understanding of the T1DM disease and its patients by bringing together leading clinicians and researcher from the areas of Immunology, Beta cell biology, and biomarker research from academia and industry. It is expected that this initiative will significantly progress the molecular understanding of the pathophysiology of T1DM and of the impact provided by standard of medical care upon T1DM patients.            Please refer to the full topic text on the IMI2 Call 1 section of the IMI website.            Expected impact: The project should help gain an improved molecular understanding of the T1DM patients, deliver insights into the disease heterogeneity and provide tools for identification of high-risk patients. Ultimately the outcome will be the definition and refinement of T1DM disease taxonomy which could create a foundation for personalized therapy of T1DM patients.            Please refer to the full topic text on the IMI2 Call 1 section of the IMI website.            IMI2-2014-01-02: Discovery and validation of novel endpoints in dry age-related macular degeneration and diabetic retinopathy            Specific challenge: Diseases of the retina are among the leading causes of blindness worldwide. Substantial progress has been made in the treatment of neovascular age-related macular degeneration (neovascular AMD) and diabetic macular edema (DME). However, for other common retinal conditions such as the dry form of AMD (dry AMD) or diabetic retinopathy (DR) treatment options remain limited. One major development hurdle is the lack of suitable, patient-relevant study endpoints with clinical relevance for both early exploratory and pivotal</p>	

trials. Moreover, there are gaps in the understanding on how pre-clinical findings translate into outcomes.

Please refer to the full topic text on the IMI2 Call 1 section of the IMI website:

<http://www.imi.europa.eu/content/stage-1-13>

Scope: The aim is to evaluate novel endpoint candidates for dry AMD and DR. The evaluation should cover the technical, medical and health economic appropriateness of a method and bridge preclinical and clinical studies.

Please refer to the full topic text on the IMI2 Call 1 section of the IMI website.

Expected impact: The project should provide generation of adequate data resulting from robust retrospective and/or prospective studies in patients that could serve as basis for initial discussion with regulatory agencies and/or HTA-bodies for acceptance of the resulting outcomes as endpoints for future clinical programs.

Please refer to the full topic text on the IMI2 Call 1 section of the IMI website.

**5**

<b>Programme</b>	Secure, clean and efficient energy
<b>Title</b>	H2020 - FCH2 JU CALL FOR PROPOSALS 2014 - H2020-JTI-FCH-2014-1
<b>Code</b>	H2020-JTI-FCH-2014-1
<b>Research areas</b>	Environment, Energy, Engineering, Research & Development
<b>Funding Institution</b>	EUROPEAN COMMISSION - DIRECTORATE GENERAL FOR RESEARCH & INNOVATION
<b>Date of publication</b>	14/07/2014
<b>Submission deadline</b>	<b>06/11/2014</b>
<b>More information</b>	<a href="http://ec.europa.eu/research/participants/portal/desktop/en/opportunities/h2020/calls/h2020-jti-fch-2014-1.html">http://ec.europa.eu/research/participants/portal/desktop/en/opportunities/h2020/calls/h2020-jti-fch-2014-1.html</a>
<b><u>Summary</u></b>	

<b>6</b>	
<b>Programme</b>	Smart, green and integrated transport
<b>Title</b>	H2020 - CLEAN SKY 2 CALL FOR CORE PARTNERS WAVE 1- H2020-CS2-CPW01-2014-01
<b>Code</b>	H2020-CS2-CPW01-2014-01
<b>Research areas</b>	Transport
<b>Funding Institution</b>	EUROPEAN COMMISSION - DIRECTORATE GENERAL FOR RESEARCH & INNOVATION
<b>Date of publication</b>	14/07/2014
<b>Submission deadline</b>	<b>15/10/2014</b>
<b>More information</b>	<a href="http://ec.europa.eu/research/participants/portal/desktop/en/opportunities/h2020/calls/h2020-cs2-cpw01-2014-01.html">http://ec.europa.eu/research/participants/portal/desktop/en/opportunities/h2020/calls/h2020-cs2-cpw01-2014-01.html</a>
<b><u>Summary</u></b>	
<p>Topics called:</p> <p>JTI-CS2-CPW-LPA-02-01: Airframe Cabin and Cargo and System integration Architecture</p> <p>JTI-CS2-CPW-LPA-02-02: Cabin &amp; Cargo Functional System and Operations</p> <p>JTI-CS2-CPW-REG-01-01: Development of advanced systems technologies and hardware/software for the Flight Simulator and Iron Bird ground demonstrators for regional aircraft</p> <p>JTI-CS2-CPW-REG-01-02: Advanced wing for regional A/C – Technologies Development, Design and Manufacturing for FTB#1</p> <p>JTI-CS2-CPW-AIR-01-01: New Innovative Aircraft Configurations and Related Issues</p> <p>JTI-CS2-CPW-AIR-01-02: e-WIPS integration on novel control surface</p> <p>JTI-CS2-CPW-AIR-02-01: New wing and aircraft systems design and integration for Turboprop regional aircraft</p> <p>JTI-CS2-CPW-AIR-02-02: Wing and Tail Unit Components Multifunctional Design and Manufacturing (including Out of Autoclave composite)</p> <p>JTI-CS2-CPW-AIR-02-03: Advanced technologies for more affordable composite fuselage</p> <p>JTI-CS2-CPW-AIR-02-04: Design and manufacturing of an advanced wing structure for rotorcraft additional lift</p> <p>JTI-CS2-CPW-ENG-01-01: Low Pressure Turbine Rear Frame (LP TRF) and Low Pressure Spool Shaft (LPS) for Ultra High Propulsive Efficiency (UHPE) Demonstrator for short / Medium Range Aircraft (WP2)</p> <p>JTI-CS2-CPW-ENG-01-02: Power GearBox (PGB) for Ultra High Propulsive Efficiency (UHPE) Demonstrator for Short/Medium Range Aircraft</p> <p>JTI-CS2-CPW-ENG-01-03: Business Aviation / Short Regional TP demonstrator Front Power Plant Module</p> <p>JTI-CS2-CPW-ENG-02-01: Aerodynamic Design and Testing of advanced Geared Fan Engine Modules</p> <p>JTI-CS2-CPW-ENG-02-02: LPC, ICD and TEC development for next generation geared fan engines</p> <p>JTI-CS2-CPW-ENG-03-01: VHBR Engine - IP Turbine Technology</p> <p>JTI-CS2-CPW-ENG-03-02: VHBR Engine Structural Technology</p> <p>JTI-CS2-CPW-ENG-04-01: More advanced and efficient small turbine engines for SAT market</p> <p>JTI-CS2-CPW-FRC-02-01: LifeRCraft airframe - Central and front fuselage sections - Design, Optimization, Manufacturing, V&amp;V including airworthiness substantiation</p> <p>JTI-CS2-CPW-FRC-02-02: LifeRCraft drive system- Main Gear Box input modules and equipped Propeller Gear Boxes - Design, Optimization, Manufacturing, V&amp;V including</p>	

airworthiness substantiation

JTI-CS2-CPW-LPA-01-01: Advanced Engine and Aircraft Configurations Strategic complementary research to prepare, develop and conduct large scale demonstration

JTI-CS2-CPW-LPA-01-02: Integrated Flow Control Applied to large Civil Aircraft

JTI-CS2-CPW-LPA-01-03: Advanced HLFC fin design work: Structural design and manufacturing of operational HLFC fin

JTI-CS2-CPW-LPA-01-04: Specific Design and Manufacturing of fuselage rear end and engine supports

JTI-CS2-CPW-LPA-01-05: PoWer Turbine of the flight demonstrator CROR engine

JTI-CS2-CPW-LPA-01-06: Rotating Frames of the flight demonstrator CROR engine

JTI-CS2-CPW-REG-02-01: Flight Physics and wing integration in FTB2

JTI-CS2-CPW-SYS-02-01: Power Electronics and Electrical Drives

JTI-CS2-CPW-SYS-03-01: Model, tools, simulation and integration

More information can be found on:

<http://ec.europa.eu/research/participants/portal/desktop/en/opportunities/h2020/calls/h2020-cs2-cpw01-2014-01.html#tab1>



<b>Programme</b>	TENDERS
<b>Title</b>	Call for Tenders - Service contract regarding a study on 'Mapping and analyses of the current and future (2020–2030) heating/cooling fuel deployment (fossil/renewables)'
<b>Code</b>	2014/S 118-208553, ENER/C2/2014-641
<b>Research areas</b>	Engineering, Transport, Energy
<b>Funding Institution</b>	EUROPEAN COMMISSION - ENERGY AND TRANSPORT DIRECTORATE GENERAL
<b>Date of publication</b>	14/07/2014
<b>Submission deadline</b>	<b>04/08/2014</b>
<b>More information</b>	<a href="http://ted.europa.eu/udl?uri=TED:NOTICE:208553-2014:TEXT:EN:HTML&amp;tabId=1">http://ted.europa.eu/udl?uri=TED:NOTICE:208553-2014:TEXT:EN:HTML&amp;tabId=1</a>

### Summary

Short description:

One of the major challenges Europe will face in the coming decades is to make its energy system more secure, more efficient and cleaner, while ensuring EU industrial leadership in low-carbon energy technologies. To help achieve such ambitious objectives, the Horizon 2020 call for competitive low-carbon energy technologies aims at developing and accelerating the time-to-market of affordable, cost-effective and resource-efficient technology solutions, to decarbonise the energy system in a sustainable way, to secure energy supply and to complete the internal energy market in line with the objectives of the EU energy legislation and energy policies designed to deliver the 2020 targets and to shape energy market frameworks for 2030. The Commission set out its strategy to enable the EU to have a world-class technology and innovation sector in the strategic energy technology plan (SET-Plan). In its 2013 communication on 'Energy technologies and innovation' the Commission said it would develop an integrated roadmap for all energy technologies, which will include energy efficiency and renewable energy sources for heating and cooling in the entire energy generation-consumption value chain.

Heating and cooling (H&C) are energy commodities that are widespread. They account for a large share of final energy consumption in Europe. However, the dispersed nature of the applications for heating and cooling makes accurate quantification difficult. Heating and cooling demand is currently mostly met by fossil fuels. Heating and cooling demand could be reduced by energy efficiency measures applied to building envelopes and by increasing the conversion efficiency of the heating and cooling technologies. There is, however, a large untapped potential to increase the use of indigenous renewable sources (in particular biomass, geothermal and solar) and to replace fossil fuels in the H&C sector.

<b>8</b>	
<b>Programme</b>	TENDERS
<b>Title</b>	Call for Tenders - Improving the sustainability of fatty acid methyl esters (FAME/biodiesel)
<b>Code</b>	2014/S 117-205797, ENER/C2/2013-628
<b>Research areas</b>	Energy
<b>Funding Institution</b>	EUROPEAN COMMISSION - ENERGY AND TRANSPORT DIRECTORATE GENERAL
<b>Date of publication</b>	14/07/2014
<b>Submission deadline</b>	<b>12/09/2014</b>
<b>More information</b>	<a href="http://ted.europa.eu/udl?uri=TED:NOTICE:205797-2014:TEXT:EN:HTML&amp;src=0">http://ted.europa.eu/udl?uri=TED:NOTICE:205797-2014:TEXT:EN:HTML&amp;src=0</a>
<b><u>Summary</u></b>	
<p>Short description:</p> <p>The European Commission is launching an invitation to tender for a service contract regarding the following project: 'Improving the sustainability of fatty acid methyl esters (FAME — biodiesel)'. The aim of this tender is to assess several ways to improve the green house gas balance of biodiesel based on fatty acid methyl ester (FAME) over a maximum duration of 14 months. The information to be provided under this contract will facilitate the Commission, the stakeholders and national authorities to have detailed information and understanding on the performance of different routes in terms of sustainability compared to current processes.</p> <p>More information can be found on:  <a href="http://ec.europa.eu/dgs/energy/tenders/index_en.htm">http://ec.europa.eu/dgs/energy/tenders/index_en.htm</a></p>	