

Roma, 22 gennaio 2016

Verbale n° 1 del Consiglio Scientifico

PRESENTI: Prof. Andreani Carla (Coordinatore), Prof. Coccia Eugenio, Prof. Coletta Massimo, Prof. Desideri Alessandro, Prof. Rickards Olga, Prof. Rosato Nicola, Prof. Traversa Enrico, Prof. Caccuri Anna Maria, Prof. Di Bartolomeo Elisabetta, Prof. Senesi Roberto, Prof. Stella Lorenzo, Prof. Venanzi Mariano, Dott. Billi Daniela, Dott. Festa Giulia, Dott. Martinez Labarga Maria Cristina.

GIUSTIFICATI: Prof. Rossi Antonello, Prof. Della Cananea Giacinto, Prof. Savini Isabella, Prof. Schillaci Orazio, Prof. Ruggieri Marina, Dott. Bottini Massimo, Prof. Balestrino Giuseppe, Prof. Mei Giampiero, Prof. Cardarilli Gian Carlo, Prof. Helmer Citterich Manuela, Prof. Licoccia Silvia, Prof. Patella Fulvia, Prof. Bruno Laura, Dott. Congestri Roberta, Dott. Di Venere Almerinda, Dott. Gambacurta Alessandra.

ASSENTI: Prof. Canini Antonella, Prof. Magrini Andrea, Prof. Picozza Pier Giorgio, Prof. Marini Stefano, Dott. De Epifanio Alessandra.

Il Consiglio Scientifico del Centro NAST, si è riunito presso la Aula Seminari del Dipartimento di Chimica, il giorno 22 gennaio 2016 alle ore 14:00 con il seguente Ordine del Giorno:

1. Comunicazioni
2. Convenzioni e accordi di ricerca
3. Assegni di ricerca e borse di studio
4. Piano triennale - 2016/2019
5. Varie ed eventuali

1. Comunicazioni

1.1 Visiting Professors per l'a.a. 2015/2016 - Prof. Felix Fernandez-Alonso.

Il Coordinatore informa che la proposta inviata nell'ambito del Bando Visiting Professors a.a. 2015/2016 è stata approvata e che il Prof. Fernandez -Alonso ha iniziato la sua attività presso l'Università Tor Vergata dal 18/01/2016 (Allegato 1).

1.2 Progetti europei: Proposta per un progetto RISE, Prof. Senesi Roberto

Il Prof. Senesi comunica al Consiglio la proposta di predisposizione di un progetto europeo nell'ambito della call

Marie Curie Research and Innovation Staff Exchange (RISE), con scadenza 28/04/2016. I progetti possono avere una durata massima di 4 anni e consistono in un programma di scambi di ricercatori giovani e senior nell'ambito di un progetto di ricerca. Il contributo UE consiste in un finanziamento, su base mensile, per i secondments ed un contributo, su base mensile, per il supporto alla ricerca. I partner individuati sono, oltre ai gruppi di ricerca di spettroscopia di neutroni (Fisica) e di materiali per conduzione ionica (Scienze e Tecnologie Chimiche), i gruppi del CNR-IMM (Istituto Microelettronica e Microsistemi), ENEA Casaccia, CUB di Bratislava, ORNL CNMS, Chalmers University of Technology. Il programma di ricerca verterà su due linee : una su "DNA nano-breadboards for selfassembled molecular electronic and sensing devices"; la seconda linea di ricerca è sui meccanismi su scale ultracorte della struttura e dinamica di conduttori protonici con struttura del tipo ABO₃-type perovskite.

Il testo della call relativa al 2015-2016 è riportato in allegato.

(Allegato 2)

1.3 Progetto Distretto Beni Culturali Sicilia. Progetto Nanotecnologie e Nanomateriali per i beni culturali (TECLA) e Progetto Sviluppo e Applicazioni di Materiali e Processi Innovativi per la Diagnostica e il Restauro dei Beni Culturali (DELIAS).

La Dott.ssa Giulia Festa informa il Consiglio che il progetto è al primo anno di attività e che:

a) per quanto riguarda TECLA:

- il progetto è in fase di svolgimento ed è stato già concluso il primo SAL (Stato Avanzamento dei Lavori);
- il 30 novembre 2015 è stata effettuata una visita dell'ETS (Esperto Tecnico Scientifico) per verifica stabile organizzazione dei progetti DTBC, con esito positivo.

b) per quanto riguarda DELIAS:

- si è in attesa del decreto attuativo da parte del MIUR.

1.4 Accordo Centro NAST- SEAHA, Attività di ricerca congiunta: *Novel neutron techniques for the non destructive and non invasive analysis of cultural heritage artefacts*.

Il Coordinatore informa che nell'ambito di una collaborazione già in essere così come da accordo stipulato in data 29 maggio 2015 tra l'Università degli Studi di Roma Tor Vergata e il SEAHA (UCL), è in fase di sottoscrizione un accordo tra l'Università degli Studi di Roma Tor Vergata, il Museo storico della fisica e Centro di studi e ricerche "Enrico Fermi" e il Centre for Doctoral Training in Science and Engineering in Arts Heritage and Archaeology SEAHA+ per svolgere un'attività di ricerca congiunta. Titolo del Progetto *Novel neutron techniques for the non destructive and non invasive analysis of cultural heritage artefacts*, presentato dalla Dott.ssa Giulia Festa (Allegati 3 - 4).

2. Convenzioni e accordi di ricerca

Nessuna Convenzioni e accordi di ricerca

3. Assegni di ricerca e borse di studio

3.1 Richiesta di attivazione Borsa di Studio *Analisi e Ottimizzazione di Feedstock organici per Sistemi Mec e Mfc*, Responsabile Scientifico: Prof. Silvia Licoccia.

Il Coordinatore del Centro porta a ratifica la richiesta di attivazione della borsa di studio dal titolo: *Analisi e Ottimizzazione di Feedstock organici per Sistemi Mec e Mfc* che ha come Responsabile Scientifico la Prof. Silvia

Licoccia. La spesa graverà sui Fondi del Progetto %Progetto Mech2+, Impegno n. 23605/15, UPB LicocciaS11Mech, CUP: F81C10000170008. (Allegato 5)

Dopo ampia discussione il Consiglio Scientifico esprime all'unanimità parere favorevole.

4. Piano triennale - 2016/2019

Il Coordinatore fa presente che il giorno 29 febbraio 2016 si svolgerà una giornata di studio dove tutti gli afferenti illustreranno i Progetti di ricerca NAST già conclusi e le nuove Proposte Progettuali per il periodo 2016-2019.

Questa giornata sarà dedicata a formulare i contenuti dei progetti del piano triennale.

Dopo ampia discussione il Consiglio Scientifico esprime all'unanimità parere favorevole.

5. Varie ed eventuali

5.1 Richieste di affiliazione.

Il Coordinatore informa delle richieste di afferenza al Centro NAST dei Professori Giuseppe Sancesario, Paola Cozza e Paola Maria Anna Paniccia (Allegati 6-7-8) e delle attività di ricerca su cui si svolgeranno le relative collaborazioni.

Inoltre, fa presente che il Prof. Sancesario è un esperto in malattia Alzheimer e nelle altre demenze, la Prof. Paniccia è specializzata in Turismo Scientifico e la Prof. Cozza è esperta in Malattie Odontostomatologiche ed illustra, infine, l'interesse del NAST ad avere collaborazioni nei relativi rami.

Dopo ampia discussione il Consiglio Scientifico esprime all'unanimità parere favorevole.

5.2 Sito Web Centro NAST.

Il Coordinatore informa che è in realizzazione il nuovo sito del Centro NAST, e invita tutti a partecipare attivamente al fine di completare le informazioni inerenti le attività di ricerca di ognuno e le relative pagine personali.

Dopo ampia discussione il Consiglio Scientifico esprime all'unanimità parere favorevole.

I presente verbale, redatto e approvato seduta stante e firmato dal Coordinatore del Centro NAST e dal Segretario, viene annotato e conservato in apposito registro.

La riunione termina alle ore 15:00

Il segretario
Dott. Barbara Gallenzi



Il Coordinatore
Prof. Carla Andreani





Rome, October 23rd 2015

To the kind attention of
Prof. Felix Fernandez-Alonso
ISIS Pulsed Neutron and Muon Source,
Rutherford Appleton Laboratory,
Chilton, Didcot, Oxfordshire
OX11 0QX, United Kingdom

Dear Prof. Fernandez-Alonso,
following your application for a position as Visiting Professor to teach course modules for 3 months in the second semester of the academic year 2015-2016, I am very glad to officially announce that we have positively completed the selection process, and we are now in a position to award you the Visiting Tor Vergata Professorship. Let me first extend to you our warmest congratulations and to express our strong satisfaction, also on behalf of your future students, to host such a qualified researcher in our institution.

To this purpose, I invite you to visit our Centro NAST, Department of Physics for the period from January 18th 2016 to April 18th 2016. Let me here specify the main details of the agreement:

Titles of the Course modules: 1) Neutron instrumentation and neutron scattering (PhD School in Physics, course on Linee di fascio di neutroni per lo studio della materia); 2) Neutron and X-Ray scattering, (Laurea magistrale in Fisica, Corsi di Laboratorio di fisica della materia e Fisica del neutrone e applicazioni); 3) Complements of thermodynamics in biological systems (Corso di Studi in Biotecnologie, Corso di Fisica).

Type of Contract: Self-employment

Salary: Euro p 14.700,00 (you will receive 50% of the salary at the beginning of your lessons, and the other 50% at the completion of your duties). This salary is intended to cover also your travel, accommodation and living expenses during your stay in Italy. **The salary is to be intended before Italian taxes.** If however you would like for us to pay you the amount with no withholding of Italian taxation you will have to send us a signed copy of the attached document, in which you declare that you will benefit of the agreement between our Countries. We also send you in attachment all the necessary documents to be filled and signed in order to receive your salary.

I look forward to meeting you when in Rome.

Best regards,

Carla Andreani

Professor in Applied Physics

Rector Delegate for Network and Research Infrastructures

Director NAST Centre



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Horizon 2020

Work Programme 2016 - 2017

3. Marie Skłodowska-Curie Actions

Important notice on the second Horizon 2020 Work Programme

This Work Programme covers 2016 and 2017. The parts of the Work Programme that relate to 2017 are provided at this stage on an indicative basis. Such Work Programme parts will be decided during 2016.

(European Commission Decision C (2015)6776 of 13 October 2015)



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Introduction

This part of the Work Programme contributes to developing the new knowledge and enhancing the skills of people behind research and innovation, this being one of the key drivers identified in the strategy for the first three years of Horizon 2020.

The Marie Skłodowska-Curie actions ensure excellent and innovative research training as well as attractive career and knowledge-exchange opportunities through cross-border and cross-sector mobility of researchers, to better prepare them for current and future societal challenges.

The Marie Skłodowska-Curie actions are open to all domains of research and innovation addressed under the Treaty on the Functioning of the European Union, from basic research up to market take-up and innovation services¹. Research and innovation fields as well as sectors are chosen freely by the applicants in a fully bottom-up manner.

The Marie Skłodowska-Curie actions are open to researchers and innovation staff at all stages of their career, irrespective of age. They are open to universities, research institutions, research infrastructures, businesses, and other socio-economic actors, including civil society organisations, from all countries, including third countries under the conditions defined in the Horizon 2020 Rules for Participation Regulation No 1290/2013 and in part A of the General Annexes to the Work Programme. Attention is paid to encouraging the strong participation of industry, in particular SMEs, for the successful implementation and impact of the Marie Skłodowska-Curie actions.

The Marie Skłodowska-Curie actions support researchers to establish themselves on a more stable career path and to ensure that they can achieve an appropriate work/life balance, taking into account their family situation.

Mobility is a key requirement in the Marie Skłodowska-Curie actions. Researchers receive funding on the condition that they move from one country to another to broaden or deepen their competences.

The principles of the [European Charter for Researchers and Code of Conduct for the Recruitment of Researchers](#)² (Charter and Code) promoting open recruitment and attractive working and employment conditions are recommended to be endorsed and applied by all the funded participants.

Principles of research integrity - as set out, for instance, in the [European Code of Conduct for Research Integrity](#) – will apply throughout all Marie Skłodowska-Curie actions.

The Marie Skłodowska-Curie actions endorse the [Horizon 2020 Responsible Research and Innovation](#) (RRI) cross-cutting issue, engaging society, integrating the gender and ethical

¹ Proposals entering into the scope of the Annex I of the Euratom Treaty shall be submitted to relevant calls under the Euratom Framework Programme.

² Commission recommendation of 11 March 2005 on the European Charter for Researchers and on a Code of Conduct for the Recruitment of Researchers, C(2005) 576 of 11.3.2005.

dimensions, ensuring the access to research outcomes and encouraging formal and informal science education. All applicants to the Marie Skłodowska-Curie calls are encouraged to adopt an [RRI approach](#) into their proposals.

The ethical dimension of the activities undertaken should be analysed and taken into account, including relevant socio-economic implications. This implies the respect of ethical principles and related legislation during the implementation. Whenever possible, the activities should also include in their objectives a better understanding and handling of the ethical aspects as well as the promotion of the highest ethical standards in the field and among the actors and stakeholders.

The Marie Skłodowska-Curie actions pay particular attention to gender balance. In line with the Charter and Code, all Marie Skłodowska-Curie proposals are encouraged to take appropriate measures to facilitate mobility and counter-act gender-related barriers to it. Equal opportunities are to be ensured in the implementation of the actions by a balanced participation of women and men, both at the level of supported researchers and that of decision-making/supervision/management structure. In research activities where human beings are involved as subjects or end-users, gender differences may exist. In these cases the gender dimension in the research content has to be addressed as an integral part of the proposal to ensure the highest level of scientific quality.

As training researchers on gender issues serves the policy objectives of Horizon 2020 and is necessary for the implementation of R&I actions, applicants may include in their proposals such activity.

To further enhance dissemination and public engagement, beneficiaries of the Marie Skłodowska-Curie actions are required to plan suitable public outreach activities. In this way, they can also contribute to the cross-cutting objectives of Horizon 2020, such as climate action, sustainable development and biodiversity.

A novelty in Horizon 2020 is the Pilot on Open Research Data which aims to improve and maximise access to and re-use of research data generated by projects. Applicants to the Marie Skłodowska-Curie actions may participate in the Open Research Data Pilot on a voluntary basis. Participation in the Pilot is not taken into account during the evaluation procedure. In other words, proposals will not be evaluated favourably because they are part of the Pilot.

A further new element in Horizon 2020 is the use of Data Management Plans (DMPs) detailing what data the project will generate, whether and how it will be exploited or made accessible for verification and re-use, and how it will be curated and preserved. The use of a DMP is required for projects participating in the Open Research Data Pilot. Other projects are invited to submit a DMP if relevant for their planned research. Only funded projects are required to submit a DMP.

Further guidance on the Pilot on [Open Research Data](#) and [Data Management](#) is available on the Participant Portal.

Marie Skłodowska-Curie Innovative Training Networks

H2020-MSCA-ITN-2016

MSCA-ITN-2016: Innovative Training Networks

Objective: The Innovative Training Networks (ITN) aim to train a new generation of creative, entrepreneurial and innovative early-stage researchers, able to face current and future challenges and to convert knowledge and ideas into products and services for economic and social benefit.

ITN will 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 intersectoral mobility combined with an innovation-oriented mind-set.

Scope: ITN supports competitively selected joint research training and/or doctoral programmes, implemented by partnerships of universities, research institutions, research infrastructures, businesses, SMEs, and other socio-economic actors from different countries across Europe and beyond.

Partnerships take the form of collaborative European Training Networks (ETN), European Industrial Doctorates (EID) or European Joint Doctorates (EJD).

Each programme should have a clearly identified supervisory board co-ordinating network-wide training and establishing active and continuous communication and exchange of best practice among the partners to maximise the benefits of the partnership.

The programme should exploit complementary competences of the participating organisations, and enable sharing of knowledge, networking activities, the organisation of workshops and conferences.

Training responds to well identified needs in defined research areas, with appropriate references to inter- and multidisciplinary fields and follows the [EU Principles for Innovative Doctoral Training](#). It should be primarily focused on scientific and technological knowledge through research on individual, personalised projects.

In order to increase the employability of the researchers, the research training should be complemented by the meaningful exposure of each researcher to the non-academic sector.

Secondments of the researcher to other beneficiaries and partner organisations are encouraged.

Substantial training modules, including digital ones, addressing key transferable skills common to all fields and fostering the culture of Open Science, innovation and entrepreneurship will be supported.

In order to reflect on the changing nature of research, training should prepare early-stage researchers for an increased research collaboration and information-sharing made possible by new technologies (e.g. collaborative tools, open access, raw data, etc.).

A Career Development Plan should be established jointly by the supervisor(s) and the early-stage researcher recruited by the selected network. In addition to research objectives, this plan comprises the researcher's training and career needs, including planning for publications and participation in conferences.

Attention is paid to the quality of supervision and mentoring arrangements as well as career guidance. Joint supervision of the researchers is mandatory for EJD and for EID, and encouraged in ETN. In EID, the joint supervision of the researcher must be ensured by at least one supervisor from the academic sector and one supervisor from the non-academic sector. These arrangements will be taken into account during the evaluation of the proposal.

In EID and EJD, fellowships offered to early-stage researchers should lead to a doctoral degree. EJD result in joint³, double or multiple doctoral degrees⁴ awarded by institutions from at least two different countries.

In EID and EJD, enrolment in a doctoral programme and the creation of a joint governance structure - with joint admission (EJD only), selection, supervision, monitoring and assessment procedures - is mandatory. These arrangements will be taken into account during the evaluation of the proposal.

Expected Impact:

At researcher level:

- Increased set of skills, both research-related and transferable ones, leading to improved employability and career prospects both in and outside academia (leading in the longer-term to more successful careers)
- Increase, in the longer-term, in higher impact R&I output, more knowledge and ideas converted into products and services
- Greater contribution, in the longer term, to the knowledge-based economy and society

At organisation level:

- Enhanced cooperation and better transfer of knowledge between sectors and disciplines
- Improvement in the quality of training programmes
- Creation of new networks and enhanced quality of existing ones
- Boosting R&I capacity among participating organisations
- Increased internationalisation of participating organisations

³ Joint degree – a single diploma issued by at least two higher education institutions offering an integrated programme and recognised officially in the countries where the degree-awarding institutions are located.

⁴ Double or multiple degree - two or more national diplomas issued by two or more higher education institutions and recognised officially in the countries where the degree-awarding institutions are located.

At system level:

- Increase in international, interdisciplinary and intersectoral mobility of researchers in Europe
- More structured and innovative doctoral training, enhanced implementation of the European Charter and Code and the EU Principles for Innovative Doctoral Training
- Stronger links between the European Research Area (ERA) and the European Higher Education Area (EHEA), notably through supporting the knowledge triangle between research, innovation and education
- Improvement in the working and employment conditions for doctoral candidates in Europe
- Increased societal and economic relevance of European higher education
- Strengthening Europe's human capital base in R&I with a new generation of more entrepreneurial and highly-skilled early career researchers
- Increase in Europe's attractiveness as a leading research destination, accompanied by a rise in the numbers of talented researchers retained and attracted from abroad
- Better quality research and innovation contributing to Europe's competitiveness and growth

Type of Action: European Industrial Doctorates, European Joint Doctorates, European Training Networks

Conditions for the Marie Skłodowska-Curie Innovative Training Networks callOpening date(s), deadline(s), indicative budget(s):⁵

Topics (Type of Action)	Budgets (EUR million)	Deadlines
	2016	
Opening: 15 Oct 2015		
MSCA-ITN-2016 (MSCA-ITN-ETN)	317.00	12 Jan 2016
MSCA-ITN-2016 (MSCA-ITN-EID)	25.00	
MSCA-ITN-2016 (MSCA-ITN-EJD)	28.00	
Overall indicative budget	370.00	

Indicative timetable for evaluation and grant agreement signature:

For single stage procedure:

- Information on the outcome of the evaluation: Maximum 5 months from the final date for submission; and
- Indicative date for the signing of grant agreements: Maximum 8 months from the final date for submission.

Eligibility and admissibility conditions: The admissibility conditions are described in part B of the General Annexes to the work programme. The eligibility conditions for Marie Skłodowska-Curie actions apply. Please read the dedicated section in the Marie Skłodowska-Curie part of the work programme.

Evaluation criteria, scoring and threshold: The selection criteria are described in part H of the General Annexes to the work programme. The award criteria, scoring and threshold for Marie Skłodowska-Curie actions apply. Please read the dedicated section in the Marie Skłodowska-Curie part of the work programme.

⁵ The Director-General responsible for the call may decide to open the call up to one month prior to or after the envisaged date(s) of opening.

All deadlines are at 17.00.00 Brussels local time.

The Director-General responsible may delay the deadline(s) by up to two months.

The budget amounts for the 2016 budget are subject to the availability of the appropriations provided for in the draft budget for 2016 after the adoption of the budget 2016 by the budgetary authority or, if the budget is not adopted, as provided for in the system of provisional twelfths.

HORIZON 2020 – Work Programme 2016-2017
Marie Skłodowska-Curie Actions

Evaluation Procedure: The evaluation procedure for Marie Skłodowska-Curie actions applies. Please read the dedicated section in the Marie Skłodowska-Curie part of the work programme.

	The maximum length of a proposal is 30 pages, excluding the annexes.
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Consortium agreement: Members of consortium are required to conclude a consortium agreement, in principle prior to the signature of the grant agreement.

Marie Skłodowska-Curie Individual Fellowships

H2020-MSCA-IF-2016

MSCA-IF-2016: Individual Fellowships

Objective: The goal of Individual Fellowships is to enhance the creative and innovative potential of experienced researchers, wishing to diversify their individual competence in terms of skill acquisition through advanced training, international and intersectoral mobility.

Individual Fellowships provide opportunities to acquire and transfer new knowledge and to work on research and innovation in a European context (EU Member States and Associated Countries) or outside Europe. The scheme particularly supports the return and reintegration of researchers from outside Europe who have previously worked here. It also develops or helps to restart the careers of individual researchers that show great potential, considering their experience.

Scope: Support is foreseen for individual, trans-national fellowships awarded to the best or most promising researchers of any nationality, for employment in EU Member States or Associated Countries. It is based on an application made jointly by the researcher and the beneficiary in the academic or non-academic sectors.

Only one proposal per individual researcher will be evaluated.

Fellowships take form of European Fellowships or Global Fellowships. European Fellowships are held in EU Member States or Associated Countries and are open to researchers either coming to Europe from any country in the world or moving within Europe. The researcher must comply with the rules of mobility in the country where the European Fellowship is held.

Return and reintegration of researchers into a longer term research position in Europe, including in their country of origin, is supported via a separate multi-disciplinary reintegration panel of the European Fellowships. For the reintegration panel, there shall be mobility into Europe.

Support to individuals to resume research in Europe after a career break, e.g. after parental leave, is ensured via a separate multi-disciplinary career restart panel of the European Fellowships. To qualify for the career restart panel, researchers must not have been active in research for at least 12 months immediately prior to the deadline for submission.

Researchers seeking to work on research and innovation projects in an organisation from the non-academic sector will be supported via a separate multi-disciplinary society and enterprise panel of the European Fellowships. The objective of this panel is to facilitate career moves between the academic and non-academic sectors and to open attractive career opportunities for researchers outside academia.

Global Fellowships are based on a secondment to a third country and a mandatory 12 month return period to a European host. The researcher must comply with the rules of mobility in the

country where the Global Fellowship secondment takes place, not for the country of the return phase.

Researchers receiving an Individual Fellowship may opt to include a secondment phase in Europe, notably in the non-academic sector, within the overall duration of their fellowship. For a fellowship of 18 months or less, the secondment phase may last up to three months. For a fellowship of more than 18 months, the secondment phase may last up to six months. The secondment phase can be a single period or be divided into shorter mobility periods. The secondment should significantly add to the impact of the fellowship.

A Career Development Plan should be established jointly by the supervisor(s) and the researcher. In addition to research or innovation objectives, this plan comprises the researcher's training and career needs, including training on transferable skills, planning for publications and participation in conferences.

Expected Impact:

At researcher level:

- Increased set of skills, both research-related and transferable ones, leading to improved employability and career prospects both in and outside academia
- Increase in higher impact R&I output, more knowledge and ideas converted into products and services
- Greater contribution to the knowledge-based economy and society

At organisation level:

- Enhanced cooperation and stronger networks
- Better transfer of knowledge between sectors and disciplines
- Boosting of R&I capacity among participating organisations

At system level:

- Increase in international, interdisciplinary and intersectoral mobility of researchers in Europe
- Strengthening of Europe's human capital base in R&I with more entrepreneurial and better trained researchers
- Better communication of R&I results to society
- Increase in Europe's attractiveness as a leading destination for R&I
- Better quality research and innovation contributing to Europe's competitiveness and growth

Type of Action: CAR – Career Restart panel, RI – Reintegration panel, Society and Enterprise panel, Standard EF, Global Fellowships

Conditions for the Marie Skłodowska-Curie Individual Fellowships call

Opening date(s), deadline(s), indicative budget(s):⁶

Topics (Type of Action)	Budgets (EUR million)	Deadlines
	2016	
Opening: 12 Apr 2016		
MSCA-IF-2016 (MSCA-IF-EF-CAR)	179.50	14 Sep 2016
MSCA-IF-2016 (MSCA-IF-EF-RI)		
MSCA-IF-2016 (MSCA-IF-EF-ST)		
MSCA-IF-2016 (MSCA-IF-EF-SE)	10.00	
MSCA-IF-2016 (MSCA-IF-GF)	29.00	
Overall indicative budget	218.50	

Indicative timetable for evaluation and grant agreement signature:

For single stage procedure:

- Information on the outcome of the evaluation: Maximum 5 months from the final date for submission; and
- Indicative date for the signing of grant agreements: Maximum 8 months from the final date for submission.

Eligibility and admissibility conditions: The admissibility conditions are described in part B of the General Annexes to the work programme. The eligibility conditions for Marie Skłodowska-Curie actions apply. Please read the dedicated section in the Marie Skłodowska-Curie part of the work programme.

Evaluation criteria, scoring and threshold: The selection criteria are described in part H of the

⁶ The Director-General responsible for the call may decide to open the call up to one month prior to or after the envisaged date(s) of opening.

All deadlines are at 17.00.00 Brussels local time.

The Director-General responsible may delay the deadline(s) by up to two months.

The budget amounts for the 2016 budget are subject to the availability of the appropriations provided for in the draft budget for 2016 after the adoption of the budget 2016 by the budgetary authority or, if the budget is not adopted, as provided for in the system of provisional twelfths.

General Annexes to the work programme. The award criteria, scoring and threshold for Marie Skłodowska-Curie actions apply. Please read the dedicated section in the Marie Skłodowska-Curie part of the work programme.

Evaluation Procedure: The evaluation procedure for Marie Skłodowska-Curie actions applies. Please read the dedicated section in the Marie Skłodowska-Curie part of the work programme.

	The maximum length of a proposal is 10 pages, excluding the CV of the researcher and the annexes.
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Consortium agreement: Not applicable - this is a mono-beneficiary action.

Marie Skłodowska-Curie Research and Innovation Staff Exchange

H2020-MSCA-RISE-2016

MSCA-RISE-2016: Research and Innovation Staff Exchange

Objective: The RISE scheme will promote international and inter-sector collaboration through research and innovation staff exchanges, and sharing of knowledge and ideas from research to market (and vice-versa).

The scheme fosters a shared culture of research and innovation that welcomes and rewards creativity and entrepreneurship and helps to turn creative ideas into innovative products, services or processes.

Scope: RISE involves organisations from the academic and non-academic sectors (in particular SMEs), based in Europe (EU Member States and Associated Countries) and outside Europe (third countries).

Support is provided for the development of partnerships in the form of a joint research and innovation project. This is aimed at knowledge sharing via international as well as intersectoral mobility, based on secondments of research and innovation staff (exchanges) with an in-built return mechanism.

The organisations constituting the partnership contribute directly to the implementation of a joint research and innovation project by seconding and/or hosting eligible staff members. Secondments shall always take place between legal entities independent from each other⁷.

RISE should exploit complementary competences of the participating organisations, as well as other synergies, and enable networking activities, organisation of workshops and conferences to facilitate sharing of knowledge, new skills acquisition and career development for research and innovation staff members.

RISE projects can focus either on one dimension of mobility (intersectoral / international), or include a combination of both.

Exchanges can be for both early-stage and experienced researchers' levels and can also include administrative, managerial and technical staff directly involved in the research and innovation activities of the proposal.

Support for the exchanges between institutions within Europe (EU Member States and Associated Countries) covers only intersectoral secondments.

Exchanges with institutions from and to third countries can be intersectoral as well as within the same sector.

Secondments between institutions located in third countries or within the same EU Member State or Associated Country will not be supported.

⁷ Independence in the meaning of Article 8 of the Horizon 2020 Rules for Participation.

Expected Impact:

At staff member level:

- Increased set of skills, both research-related and transferable ones, leading to improved employability and career prospects both in and outside academia
- Increase in higher impact R&I output, more knowledge and ideas converted into products and services
- Greater contribution to the knowledge-based economy and society

At organisation level:

- Enhanced cooperation and transfer of knowledge between sectors and disciplines
- Strengthening of international and intersectoral collaborative networks
- Boosting of R&I capacity among participating organisations

At system level:

- Increase in international, interdisciplinary and intersectoral mobility of researchers in Europe
- Strengthening of Europe's human capital base in R&I
- Increase in Europe's attractiveness as a leading destination for R&I
- Better quality R&I contributing to Europe's competitiveness and growth

Type of Action: RISE

Conditions for the Marie Skłodowska-Curie Research and Innovation Staff Exchange call

Opening date(s), deadline(s), indicative budget(s):⁸

Topics (Type of Action)	Budgets (EUR million)	Deadlines
	2016	
Opening: 08 Dec 2015		
MSCA-RISE-2016 (MSCA-RISE)	80.00	28 April 2016
Overall indicative budget	80.00	

Indicative timetable for evaluation and grant agreement signature:

For single stage procedure:

- Information on the outcome of the evaluation: Maximum 5 months from the final date for submission; and
- Indicative date for the signing of grant agreements: Maximum 8 months from the final date for submission.

Eligibility and admissibility conditions: The admissibility conditions are described in part B of the General Annexes to the work programme. The eligibility conditions for Marie Skłodowska-Curie actions apply. Please read the dedicated section in the Marie Skłodowska-Curie part of the work programme.

Evaluation criteria, scoring and threshold: The selection criteria are described in part H of the General Annexes to the work programme. The award criteria, scoring and threshold for Marie Skłodowska-Curie actions apply. Please read the dedicated section in the Marie Skłodowska-Curie part of the work programme.

⁸ The Director-General responsible for the call may decide to open the call up to one month prior to or after the envisaged date(s) of opening.

All deadlines are at 17.00.00 Brussels local time.

The Director-General responsible may delay the deadline(s) by up to two months.

The budget amounts for the 2016 budget are subject to the availability of the appropriations provided for in the draft budget for 2016 after the adoption of the budget 2016 by the budgetary authority or, if the budget is not adopted, as provided for in the system of provisional twelfths.

HORIZON 2020 – Work Programme 2016-2017
Marie Skłodowska-Curie Actions

Evaluation Procedure: The evaluation procedure for Marie Skłodowska-Curie actions applies. Please read the dedicated section in the Marie Skłodowska-Curie part of the work programme.

	The maximum length of a proposal is 30 pages, excluding the annexes.
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Consortium agreement: Members of consortium are required to conclude a consortium agreement, in principle prior to the signature of the grant agreement.

Marie Skłodowska-Curie Co-funding of regional, national and international programmes

H2020-MSCA-COFUND-2016

MSCA-COFUND-2016: Co-funding of regional, national and international programmes

Objective: The COFUND scheme aims to stimulate regional, national or international programmes to foster excellence in researchers' training, mobility and career development, spreading the best practices of Marie Skłodowska-Curie actions.

This will be achieved by co-funding new or existing regional, national, and international programmes to open up to, and provide for, international, intersectoral and interdisciplinary research training, as well as transnational and cross-sectoral mobility of researchers at all stages of their career.

Scope: Each proposal funded under the COFUND scheme shall have a sole beneficiary that will be responsible for the availability of the necessary matching funds to execute the proposal.

Applicants submit multi-annual proposals for new or existing doctoral programmes or fellowship programmes which are expected to have an impact on enhancing research- and innovation related human resources on regional, national or international level.

Researchers supported under this scheme shall comply with the mobility rules of the Marie Skłodowska-Curie actions.

Limitations regarding the researchers' origin and destination should be avoided. Support cannot be awarded to researchers who are already permanently employed by the organisation hosting them.

Proposed programmes are encouraged to cover all research disciplines ("bottom-up"), but can also focus on specific disciplines. In this case the range of covered disciplines should allow reasonable flexibility for the researchers.

Programmes that prioritise specific research disciplines based on national or regional Research and Innovation Strategies for Smart Specialisation (RIS3 strategies) can also be supported. Synergies with the European Structural & Investment Funds (ESIF) are encouraged.

COFUND takes the form of:

A) Doctoral programmes

Doctoral programmes address the development and broadening of the research competencies of early-stage researchers. The training follows the [EU Principles on Innovative Doctoral Training](#). Collaboration with a wider set of partner organisations, including from the non-academic sector, which may provide hosting or secondment opportunities or training in

research or transferable skills, as well as innovative elements of the proposed programme, will be positively taken into account during the evaluations.

Each researcher must be enrolled in a doctoral programme. Attention is paid to the quality of supervision and mentoring arrangements as well as career guidance.

B) Fellowship programmes

Fellowship programmes fund individual research training and career development fellowships for experienced researchers. The programmes supported should have regular selection rounds following fixed deadlines or regular cut-off dates, allowing fair competition between the researchers applying. The selections should be based on open, widely advertised competition, with transparent international peer review and the selection of candidates on merit. Mobility types supported by fellowship programmes may be similar to the ones supported under Marie Skłodowska-Curie Individual Fellowships. On top of transnational mobility, applicants are encouraged to include elements of cross-sectoral mobility into their programmes. Fellowship programmes should be based on individual-driven mobility, i.e., researchers should be able to freely choose a research topic and the appropriate organisation to host them, fitting their individual needs.

Given that the aim of the co-funded fellowship programmes is the support of individual fellows, research teams will not be funded.

Expected Impact:

At researcher level:

- Increased set of skills, both research-related and transferable ones, leading to improved employability and career prospects both in and outside academia (leading in the longer-term to more successful careers)
- Increase in higher impact R&I output, more knowledge and ideas converted into products and services
- Greater contribution to the knowledge-based economy and society

At organisation level:

- Development of high quality human resources
- Boosting R&I capacity among participating organisations
- Enhanced cooperation and transfer of knowledge between sectors and disciplines
- Strengthening of international and intersectoral collaborative networks

At system level:

- Aligning of practices and policies in the context of the EU Human Resources Strategy for Researchers, enhanced implementation of the European Charter and Code and the EU Principles for Innovative Doctoral Training at regional, national or international level
- Increase in international, interdisciplinary and intersectoral mobility of researchers in Europe

- Improvement in the working and employment conditions for researchers in Europe at all levels of their career, starting from the doctoral stage
- Strengthening of Europe's human capital base in R&I
- Increase in Europe's attractiveness as a leading destination for R&I
- Better quality R&I contributing to Europe's competitiveness and growth

Type of Action: Doctoral programmes, Fellowship programmes

Conditions for the Marie Skłodowska-Curie Co-funding of regional, national and international programmes call

Opening date(s), deadline(s), indicative budget(s):⁹

Topics (Type of Action)	Budgets (EUR million)	Deadlines
	2016	
Opening: 14 Apr 2016		
MSCA-COFUND-2016 (MSCA-COFUND-DP)	30.00	29 Sep 2016
MSCA-COFUND-2016 (MSCA-COFUND-FP)	50.00	
Overall indicative budget	80.00	

Indicative timetable for evaluation and grant agreement signature:

For single stage procedure:

- Information on the outcome of the evaluation: Maximum 5 months from the final date for submission; and
- Indicative date for the signing of grant agreements: Maximum 8 months from the final date for submission.

Eligibility and admissibility conditions: The admissibility conditions are described in part B of the General Annexes to the work programme. The eligibility conditions for Marie Skłodowska-Curie actions apply. Please read the dedicated section in the Marie Skłodowska-Curie part of the work programme.

Evaluation criteria, scoring and threshold: The selection criteria are described in part H of the General Annexes to the work programme. The award criteria, scoring and threshold for Marie Skłodowska-Curie actions apply. Please read the dedicated section in the Marie Skłodowska-Curie part of the work programme.

⁹ The Director-General responsible for the call may decide to open the call up to one month prior to or after the envisaged date(s) of opening.

All deadlines are at 17.00.00 Brussels local time.

The Director-General responsible may delay the deadline(s) by up to two months.

The budget amounts for the 2016 budget are subject to the availability of the appropriations provided for in the draft budget for 2016 after the adoption of the budget 2016 by the budgetary authority or, if the budget is not adopted, as provided for in the system of provisional twelfths.

HORIZON 2020 – Work Programme 2016-2017
Marie Skłodowska-Curie Actions

Evaluation Procedure: The evaluation procedure for Marie Skłodowska-Curie actions applies. Please read the dedicated section in the Marie Skłodowska-Curie part of the work programme.

	The maximum length of a proposal is 30 pages, excluding the annexes.
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Consortium agreement: Not applicable - this is a mono-beneficiary action.

European Researchers' Night

H2020-MSCA-NIGHT-2016

MSCA-NIGHT-2016: European Researchers' Night

Objective: The European Researchers' Night aims to bring researchers closer to the general public and to increase awareness of research and innovation activities, with a view to supporting the public recognition of researchers, creating an understanding of the impact of researchers' work on citizen's daily life, and encouraging young people to embark on research careers.

Scope: The European Researchers' Night takes place yearly, typically on the last Friday of the month of September, and is the occasion for a Europe-wide public and media event for the promotion of research careers, in particular towards young people and their families. Supported events can start early Friday afternoon and last until early morning the following day.

Activities focus on the general public, addressing and attracting people regardless of the level their scientific background, with a special focus on pupils and students. Activities can combine education aspects with entertainment, especially when addressing young audience. They can take various forms, e.g. hands-on experiments, science shows, simulations, debates, games, competitions, quizzes, etc.

Where appropriate, engagement with educational institutions should be sought in order to encourage formal and informal science education with the aim to improve the scientific knowledge base.

Each proposal should set up at least one European corner. Activities should be organised with researchers actively involved and directly in contact with the public. They should promote the European dimension and gender balance in research and innovation. Involvement of researchers funded by Horizon 2020, including the Marie Skłodowska-Curie actions, is encouraged.

Participants can be any legal entity in the EU Member States and Associated Countries, and/or if relevant, constitute a partnership at regional, national or international level. The maximum duration of support will be two years from the starting date specified in the grant agreement. Proposal should cover two editions of the Night, in successive years. One single edition of the Night may also be considered.

Applicants not retained due to lack of funding may be granted the status of associated events.

Expected Impact:

- Increased awareness among the general public of the importance of research and innovation and more favourable general attitude towards its funding
- Better understanding of the key benefits that research brings to society
- Reduction in the stereotypes about researchers and their profession

HORIZON 2020 – Work Programme 2016-2017
Marie Skłodowska-Curie Actions

- Increase, in the long term, of people taking up research careers

Type of Action: Coordination and support action

Conditions for the European Researchers' Night call

Opening date(s), deadline(s), indicative budget(s):¹⁰

Topics (Type of Action)	Budgets (EUR million)	Deadlines
	2016	
Opening: 15 Oct 2015		
MSCA-NIGHT-2016 (CSA)	8.00	13 Jan 2016
Overall indicative budget	8.00	

Indicative timetable for evaluation and grant agreement signature:

For single stage procedure:

- Information on the outcome of the evaluation: Maximum 5 months from the final date for submission; and
- Indicative date for the signing of grant agreements: Maximum 8 months from the final date for submission.

Eligibility and admissibility conditions: The conditions are described in parts B and C of the General Annexes to the work programme.

Evaluation criteria, scoring and threshold: The criteria, scoring and threshold are described in part H of the General Annexes to the work programme

Evaluation Procedure: The procedure for setting a priority order for proposals with the same score is given in part H of the General Annexes.

The full evaluation procedure is described in the relevant [guide](#) published on the Participant Portal.

¹⁰ The Director-General responsible for the call may decide to open the call up to one month prior to or after the envisaged date(s) of opening.

All deadlines are at 17.00.00 Brussels local time.

The Director-General responsible may delay the deadline(s) by up to two months.

The budget amounts for the 2016 budget are subject to the availability of the appropriations provided for in the draft budget for 2016 after the adoption of the budget 2016 by the budgetary authority or, if the budget is not adopted, as provided for in the system of provisional twelfths.

HORIZON 2020 – Work Programme 2016-2017
Marie Skłodowska-Curie Actions

	The maximum length of a proposal is 30 pages, excluding the annexes.
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Consortium agreement: Members of consortium are required to conclude a consortium agreement, in principle prior to the signature of the grant agreement.

Marie Skłodowska-Curie Innovative Training Networks

H2020-MSCA-ITN-2017

MSCA-ITN-2017: Innovative Training Networks

Objective: The Innovative Training Networks (ITN) aim to train a new generation of creative, entrepreneurial and innovative early-stage researchers, able to face current and future challenges and to convert knowledge and ideas into products and services for economic and social benefit.

ITN will 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 intersectoral mobility combined with an innovation-oriented mind-set.

Scope: ITN supports competitively selected joint research training and/or doctoral programmes, implemented by partnerships of universities, research institutions, research infrastructures, businesses, SMEs, and other socio-economic actors from different countries across Europe and beyond.

Partnerships take the form of collaborative European Training Networks (ETN), European Industrial Doctorates (EID) or European Joint Doctorates (EJD).

Each programme should have a clearly identified supervisory board co-ordinating network-wide training and establishing active and continuous communication and exchange of best practice among the partners to maximise the benefits of the partnership.

The programme should exploit complementary competences of the participating organisations, and enable sharing of knowledge, networking activities, the organisation of workshops and conferences.

Training responds to well identified needs in defined research areas, with appropriate references to inter- and multidisciplinary fields and follows the [EU Principles for Innovative Doctoral Training](#). It should be primarily focused on scientific and technological knowledge through research on individual, personalised projects.

In order to increase the employability of the researchers, the research training should be complemented by the meaningful exposure of each researcher to the non-academic sector.

Secondments of the researcher to other beneficiaries and partner organisations are encouraged.

Substantial training modules, including digital ones, addressing key transferable skills common to all fields and fostering the culture of Open Science, innovation and entrepreneurship will be supported.

In order to reflect on the changing nature of research, training should prepare early-stage researchers for an increased research collaboration and information-sharing made possible by new technologies (e.g. collaborative tools, open access, raw data, etc.).

A Career Development Plan should be established jointly by the supervisor(s) and the early-stage researcher recruited by the selected network. In addition to research objectives, this plan comprises the researcher's training and career needs, including planning for publications and participation in conferences.

Attention is paid to the quality of supervision and mentoring arrangements as well as career guidance. Joint supervision of the researchers is mandatory for EJD and for EID, and encouraged in ETN. In EID, the joint supervision of the researcher must be ensured by at least one supervisor from the academic sector and one supervisor from the non-academic sector. These arrangements will be taken into account during the evaluation of the proposal.

In EID and EJD, fellowships offered to early-stage researchers should lead to a doctoral degree. EJD result in joint¹¹, double or multiple doctoral degrees¹² awarded by institutions from at least two different countries.

In EID and EJD, enrolment in a doctoral programme and the creation of a joint governance structure - with joint admission (EJD only), selection, supervision, monitoring and assessment procedures - is mandatory. These arrangements will be taken into account during the evaluation of the proposal.

Expected Impact:

At researcher level:

- Increased set of skills, both research-related and transferable ones, leading to improved employability and career prospects both in and outside academia (leading in the longer-term to more successful careers)
- Increase, in the longer-term, in higher impact R&I output, more knowledge and ideas converted into products and services
- Greater contribution, in the longer term, to the knowledge-based economy and society

At organisation level:

- Enhanced cooperation and better transfer of knowledge between sectors and disciplines
- Improvement in the quality of training programmes
- Creation of new networks and enhanced quality of existing ones
- Boosting R&I capacity among participating organisations
- Increased internationalisation of participating organisations

¹¹ Joint degree – a single diploma issued by at least two higher education institutions offering an integrated programme and recognised officially in the countries where the degree-awarding institutions are located.

¹² Double or multiple degree - two or more national diplomas issued by two or more higher education institutions and recognised officially in the countries where the degree-awarding institutions are located.

At system level:

- Increase in international, interdisciplinary and intersectoral mobility of researchers in Europe
- More structured and innovative doctoral training, enhanced implementation of the European Charter and Code and the EU Principles for Innovative Doctoral Training
- Stronger links between the European Research Area (ERA) and the European Higher Education Area (EHEA), notably through supporting the knowledge triangle between research, innovation and education
- Improvement in the working and employment conditions for doctoral candidates in Europe
- Increased societal and economic relevance of European higher education
- Strengthening Europe's human capital base in R&I with a new generation of more entrepreneurial and highly-skilled early career researchers
- Increase in Europe's attractiveness as a leading research destination, accompanied by a rise in the numbers of talented researchers retained and attracted from abroad
- Better quality research and innovation contributing to Europe's competitiveness and growth

Type of Action: European Industrial Doctorates, European Joint Doctorates, European Training Networks

Conditions for the Marie Skłodowska-Curie Innovative Training Networks call

Opening date(s), deadline(s), indicative budget(s):¹³

Topics (Type of Action)	Budgets (EUR million)	Deadlines
	2017	
Opening: 15 Sep 2016		
MSCA-ITN-2017 (MSCA-ITN-ETN)	370.00	10 Jan 2017
MSCA-ITN-2017 (MSCA-ITN-EID)	28.00	
MSCA-ITN-2017 (MSCA-ITN-EJD)	32.00	
Overall indicative budget	430.00	

Indicative timetable for evaluation and grant agreement signature:

For single stage procedure:

- Information on the outcome of the evaluation: Maximum 5 months from the final date for submission; and
- Indicative date for the signing of grant agreements: Maximum 8 months from the final date for submission.

Eligibility and admissibility conditions: The admissibility conditions are described in part B of the General Annexes to the work programme. The eligibility conditions for Marie Skłodowska-Curie actions apply. Please read the dedicated section in the Marie Skłodowska-Curie part of the work programme.

Evaluation criteria, scoring and threshold: The selection criteria are described in part H of the General Annexes to the work programme. The award criteria, scoring and threshold for Marie Skłodowska-Curie actions apply. Please read the dedicated section in the Marie Skłodowska-Curie part of the work programme.

¹³ The Director-General responsible for the call may decide to open the call up to one month prior to or after the envisaged date(s) of opening.

All deadlines are at 17.00.00 Brussels local time.

The Director-General responsible may delay the deadline(s) by up to two months.

The deadline(s) in 2017 are indicative and subject to a separate financing decision for 2017.

The budget amounts for the 2017 budget are indicative and will be subject to a separate financing decision to cover the amounts to be allocated for 2017.

HORIZON 2020 – Work Programme 2016-2017
Marie Skłodowska-Curie Actions

Evaluation Procedure: The evaluation procedure for Marie Skłodowska-Curie actions applies. Please read the dedicated section in the Marie Skłodowska-Curie part of the work programme.

	The maximum length of a proposal is 30 pages, excluding the annexes.
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Consortium agreement: Members of consortium are required to conclude a consortium agreement, in principle prior to the signature of the grant agreement.

Marie Skłodowska-Curie Individual Fellowships

H2020-MSCA-IF-2017

MSCA-IF-2017: Individual Fellowships

Objective: The goal of Individual Fellowships is to enhance the creative and innovative potential of experienced researchers, wishing to diversify their individual competence in terms of skill acquisition through advanced training, international and intersectoral mobility.

Individual Fellowships provide opportunities to acquire and transfer new knowledge and to work on research and innovation in a European context (EU Member States and Associated Countries) or outside Europe. The scheme particularly supports the return and reintegration of researchers from outside Europe who have previously worked here. It also develops or helps to restart the careers of individual researchers that show great potential, considering their experience.

Scope: Support is foreseen for individual, trans-national fellowships awarded to the best or most promising researchers of any nationality, for employment in EU Member States or Associated Countries. It is based on an application made jointly by the researcher and the beneficiary in the academic or non-academic sectors.

Only one proposal per individual researcher will be evaluated.

Fellowships take form of European Fellowships or Global Fellowships. European Fellowships are held in EU Member States or Associated Countries and are open to researchers either coming to Europe from any country in the world or moving within Europe. The researcher must comply with the rules of mobility in the country where the European Fellowship is held.

Return and reintegration of researchers into a longer term research position in Europe, including in their country of origin, is supported via a separate multi-disciplinary reintegration panel of the European Fellowships. For the reintegration panel, there shall be mobility into Europe.

Support to individuals to resume research in Europe after a career break, e.g. after parental leave, is ensured via a separate multi-disciplinary career restart panel of the European Fellowships. To qualify for the career restart panel, researchers must not have been active in research for at least 12 months immediately prior to the deadline for submission.

Researchers seeking to work on research and innovation projects in an organisation from the non-academic sector will be supported via a separate multi-disciplinary society and enterprise panel of the European Fellowships. The objective of this panel is to facilitate career moves between the academic and non-academic sectors and to open attractive career opportunities for researchers outside academia.

Global Fellowships are based on a secondment to a third country and a mandatory 12 month return period to a European host. The researcher must comply with the rules of mobility in the

country where the Global Fellowship secondment takes place, not for the country of the return phase.

Researchers receiving an Individual Fellowship may opt to include a secondment phase in Europe, notably in the non-academic sector, within the overall duration of their fellowship. For a fellowship of 18 months or less, the secondment phase may last up to three months. For a fellowship of more than 18 months, the secondment phase may last up to six months. The secondment phase can be a single period or be divided into shorter mobility periods. The secondment should significantly add to the impact of the fellowship.

A Career Development Plan should be established jointly by the supervisor(s) and the researcher. In addition to research or innovation objectives, this plan comprises the researcher's training and career needs, including training on transferable skills, planning for publications and participation in conferences.

Expected Impact:

At researcher level:

- Increased set of skills, both research-related and transferable ones, leading to improved employability and career prospects both in and outside academia
- Increase in higher impact R&I output, more knowledge and ideas converted into products and services
- Greater contribution to the knowledge-based economy and society

At organisation level:

- Enhanced cooperation and stronger networks
- Better transfer of knowledge between sectors and disciplines
- Boosting of R&I capacity among participating organisations

At system level:

- Increase in international, interdisciplinary and intersectoral mobility of researchers in Europe
- Strengthening of Europe's human capital base in R&I with more entrepreneurial and better trained researchers
- Better communication of R&I results to society
- Increase in Europe's attractiveness as a leading destination for R&I
- Better quality research and innovation contributing to Europe's competitiveness and growth

Type of Action: CAR – Career Restart panel, RI – Reintegration panel, Society and Enterprise panel, Standard EF, Global Fellowships

Conditions for the Marie Skłodowska-Curie Individual Fellowships call

Opening date(s), deadline(s), indicative budget(s):¹⁴

Topics (Type of Action)	Budgets (EUR million)	Deadlines
	2017	
Opening: 11 Apr 2017		
MSCA-IF-2017 (MSCA-IF-EF-CAR)	205.00	14 Sep 2017
MSCA-IF-2017 (MSCA-IF-EF-RI)		
MSCA-IF-2017 (MSCA-IF-EF-ST)		
MSCA-IF-2017 (MSCA-IF-EF-SE)	10.00	
MSCA-IF-2017 (MSCA-IF-GF)	33.00	
Overall indicative budget	248.00	

Indicative timetable for evaluation and grant agreement signature:

For single stage procedure:

- Information on the outcome of the evaluation: Maximum 5 months from the final date for submission; and
- Indicative date for the signing of grant agreements: Maximum 8 months from the final date for submission.

Eligibility and admissibility conditions: The admissibility conditions are described in part B of the General Annexes to the work programme. The eligibility conditions for Marie Skłodowska-Curie actions apply. Please read the dedicated section in the Marie Skłodowska-Curie part of the work programme.

Evaluation criteria, scoring and threshold: The selection criteria are described in part H of the

¹⁴ The Director-General responsible for the call may decide to open the call up to one month prior to or after the envisaged date(s) of opening.

All deadlines are at 17.00.00 Brussels local time.

The Director-General responsible may delay the deadline(s) by up to two months.

The deadline(s) in 2017 are indicative and subject to a separate financing decision for 2017.

The budget amounts for the 2017 budget are indicative and will be subject to a separate financing decision to cover the amounts to be allocated for 2017.

General Annexes to the work programme. The award criteria, scoring and threshold for Marie Skłodowska-Curie actions apply. Please read the dedicated section in the Marie Skłodowska-Curie part of the work programme.

Evaluation Procedure: The evaluation procedure for Marie Skłodowska-Curie actions applies. Please read the dedicated section in the Marie Skłodowska-Curie part of the work programme.

	The maximum length of a proposal is 10 pages, excluding the CV of the researcher and the annexes.
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Consortium agreement: Not applicable - this is a mono-beneficiary action.

Marie Skłodowska-Curie Research and Innovation Staff Exchange

H2020-MSCA-RISE-2017

MSCA-RISE 2017: Research and Innovation Staff Exchange

Objective: The RISE scheme will promote international and inter-sector collaboration through research and innovation staff exchanges, and sharing of knowledge and ideas from research to market (and vice-versa).

The scheme fosters a shared culture of research and innovation that welcomes and rewards creativity and entrepreneurship and helps to turn creative ideas into innovative products, services or processes.

Scope: RISE involves organisations from the academic and non-academic sectors (in particular SMEs), based in Europe (EU Member States and Associated Countries) and outside Europe (third countries).

Support is provided for the development of partnerships in the form of a joint research and innovation project. This is aimed at knowledge sharing via international as well as intersectoral mobility, based on secondments of research and innovation staff (exchanges) with an in-built return mechanism.

The organisations constituting the partnership contribute directly to the implementation of a joint research and innovation project by seconding and/or hosting eligible staff members. Secondments shall always take place between legal entities independent from each other¹⁵.

RISE should exploit complementary competences of the participating organisations, as well as other synergies, and enable networking activities, organisation of workshops and conferences to facilitate sharing of knowledge, new skills acquisition and career development for research and innovation staff members.

RISE projects can focus either on one dimension of mobility (intersectoral / international), or include a combination of both.

Exchanges can be for both early-stage and experienced researchers' levels and can also include administrative, managerial and technical staff directly involved in the research and innovation activities of the proposal.

Support for the exchanges between institutions within Europe (EU Member States and Associated Countries) covers only intersectoral secondments.

Exchanges with institutions from and to third countries can be intersectoral as well as within the same sector.

Secondments between institutions located in third countries or within the same EU Member State or Associated Country will not be supported.

¹⁵ Independence in the meaning of Article 8 of the Horizon 2020 Rules for Participation.

Expected Impact:

At staff member level:

- Increased set of skills, both research-related and transferable ones, leading to improved employability and career prospects both in and outside academia
- Increase in higher impact R&I output, more knowledge and ideas converted into products and services
- Greater contribution to the knowledge-based economy and society

At organisation level:

- Enhanced cooperation and transfer of knowledge between sectors and disciplines
- Strengthening of international and intersectoral collaborative networks
- Boosting of R&I capacity among participating organisations

At system level:

- Increase in international, interdisciplinary and intersectoral mobility of researchers in Europe
- Strengthening of Europe's human capital base in R&I
- Increase in Europe's attractiveness as a leading destination for R&I
- Better quality R&I contributing to Europe's competitiveness and growth

Type of Action: RISE

Conditions for the Marie Skłodowska-Curie Research and Innovation Staff Exchange call

Opening date(s), deadline(s), indicative budget(s):¹⁶

Topics (Type of Action)	Budgets (EUR million)	Deadlines
	2017	
Opening: 01 Dec 2016		
MSCA-RISE 2017 (MSCA-RISE)	80.00	05 Apr 2017
Overall indicative budget	80.00	

Indicative timetable for evaluation and grant agreement signature:

For single stage procedure:

- Information on the outcome of the evaluation: Maximum 5 months from the final date for submission; and
- Indicative date for the signing of grant agreements: Maximum 8 months from the final date for submission.

Eligibility and admissibility conditions: The admissibility conditions are described in part B of the General Annexes to the work programme. The eligibility conditions for Marie Skłodowska-Curie actions apply. Please read the dedicated section in the Marie Skłodowska-Curie part of the work programme.

Evaluation criteria, scoring and threshold: The selection criteria are described in part H of the General Annexes to the work programme. The award criteria, scoring and threshold for Marie Skłodowska-Curie actions apply. Please read the dedicated section in the Marie Skłodowska-Curie part of the work programme.

¹⁶ The Director-General responsible for the call may decide to open the call up to one month prior to or after the envisaged date(s) of opening.

All deadlines are at 17.00.00 Brussels local time.

The Director-General responsible may delay the deadline(s) by up to two months.

The deadline(s) in 2017 are indicative and subject to a separate financing decision for 2017.

The budget amounts for the 2017 budget are indicative and will be subject to a separate financing decision to cover the amounts to be allocated for 2017.

HORIZON 2020 – Work Programme 2016-2017
Marie Skłodowska-Curie Actions

Evaluation Procedure: The evaluation procedure for Marie Skłodowska-Curie actions applies. Please read the dedicated section in the Marie Skłodowska-Curie part of the work programme.

	The maximum length of a proposal is 30 pages, excluding the annexes.
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Consortium agreement: Members of consortium are required to conclude a consortium agreement, in principle prior to the signature of the grant agreement.

Marie Skłodowska-Curie Co-funding of regional, national and international programmes

H2020-MSCA-COFUND-2017

MSCA-COFUND-2017: Co-funding of regional, national and international programmes

Objective: The COFUND scheme aims to stimulate regional, national or international programmes to foster excellence in researchers' training, mobility and career development, spreading the best practices of Marie Skłodowska-Curie actions.

This will be achieved by co-funding new or existing regional, national, and international programmes to open up to, and provide for, international, intersectoral and interdisciplinary research training, as well as transnational and cross-sectoral mobility of researchers at all stages of their career.

Scope: Each proposal funded under the COFUND scheme shall have a sole beneficiary that will be responsible for the availability of the necessary matching funds to execute the proposal.

Applicants submit multi-annual proposals for new or existing doctoral programmes or fellowship programmes which are expected to have an impact on enhancing research- and innovation related human resources on regional, national or international level.

Researchers supported under this scheme shall comply with the mobility rules of the Marie Skłodowska-Curie actions.

Limitations regarding the researchers' origin and destination should be avoided. Support cannot be awarded to researchers who are already permanently employed by the organisation hosting them.

Proposed programmes are encouraged to cover all research disciplines ("bottom-up"), but can also focus on specific disciplines. In this case the range of covered disciplines should allow reasonable flexibility for the researchers.

Programmes that prioritise specific research disciplines based on national or regional Research and Innovation Strategies for Smart Specialisation (RIS3 strategies) can also be supported. Synergies with the European Structural & Investment Funds (ESIF) are encouraged.

COFUND takes the form of:

A) Doctoral programmes

Doctoral programmes address the development and broadening of the research competencies of early-stage researchers. The training follows the [EU Principles on Innovative Doctoral Training](#). Collaboration with a wider set of partner organisations, including from the non-academic sector, which may provide hosting or secondment opportunities or training in

research or transferable skills, as well as innovative elements of the proposed programme, will be positively taken into account during the evaluations.

Each researcher must be enrolled in a doctoral programme. Attention is paid to the quality of supervision and mentoring arrangements as well as career guidance.

B) Fellowship programmes

Fellowship programmes fund individual research training and career development fellowships for experienced researchers. The programmes supported should have regular selection rounds following fixed deadlines or regular cut-off dates, allowing fair competition between the researchers applying. The selections should be based on open, widely advertised competition, with transparent international peer review and the selection of candidates on merit. Mobility types supported by fellowship programmes may be similar to the ones supported under Marie Skłodowska-Curie Individual Fellowships. On top of transnational mobility, applicants are encouraged to include elements of cross-sectoral mobility into their programmes. Fellowship programmes should be based on individual-driven mobility, i.e., researchers should be able to freely choose a research topic and the appropriate organisation to host them, fitting their individual needs.

Given that the aim of the co-funded fellowship programmes is the support of individual fellows, research teams will not be funded.

Expected Impact:

At researcher level:

- Increased set of skills, both research-related and transferable ones, leading to improved employability and career prospects both in and outside academia (leading in the longer-term to more successful careers)
- Increase in higher impact R&I output, more knowledge and ideas converted into products and services
- Greater contribution to the knowledge-based economy and society

At organisation level:

- Development of high quality human resources
- Boosting R&I capacity among participating organisations
- Enhanced cooperation and transfer of knowledge between sectors and disciplines
- Strengthening of international and intersectoral collaborative networks

At system level:

- Aligning of practices and policies in the context of the EU Human Resources Strategy for Researchers, enhanced implementation of the European Charter and Code and the EU Principles for Innovative Doctoral Training at regional, national or international level
- Increase in international, interdisciplinary and intersectoral mobility of researchers in Europe

- Improvement in the working and employment conditions for researchers in Europe at all levels of their career, starting from the doctoral stage
- Strengthening of Europe's human capital base in R&I
- Increase in Europe's attractiveness as a leading destination for R&I
- Better quality R&I contributing to Europe's competitiveness and growth

Type of Action: Doctoral programmes, Fellowship programmes

Conditions for the Marie Skłodowska-Curie Co-funding of regional, national and international programmes call

Opening date(s), deadline(s), indicative budget(s):¹⁷

Topics (Type of Action)	Budgets (EUR million)	Deadlines
	2017	
Opening: 05 Apr 2017		
MSCA-COFUND-2017 (MSCA-COFUND-DP)	30.00	28 Sep 2017
MSCA-COFUND-2017 (MSCA-COFUND-FP)	50.00	
Overall indicative budget	80.00	

Indicative timetable for evaluation and grant agreement signature:

For single stage procedure:

- Information on the outcome of the evaluation: Maximum 5 months from the final date for submission; and
- Indicative date for the signing of grant agreements: Maximum 8 months from the final date for submission.

Eligibility and admissibility conditions: The admissibility conditions are described in part B of the General Annexes to the work programme. The eligibility conditions for Marie Skłodowska-Curie actions apply. Please read the dedicated section in the Marie Skłodowska-Curie part of the work programme.

Evaluation criteria, scoring and threshold: The selection criteria are described in part H of the General Annexes to the work programme. The award criteria, scoring and threshold for Marie Skłodowska-Curie actions apply. Please read the dedicated section in the Marie Skłodowska-Curie part of the work programme.

¹⁷ The Director-General responsible for the call may decide to open the call up to one month prior to or after the envisaged date(s) of opening.

All deadlines are at 17.00.00 Brussels local time.

The Director-General responsible may delay the deadline(s) by up to two months.

The deadline(s) in 2017 are indicative and subject to a separate financing decision for 2017.

The budget amounts for the 2017 budget are indicative and will be subject to a separate financing decision to cover the amounts to be allocated for 2017.

HORIZON 2020 – Work Programme 2016-2017
Marie Skłodowska-Curie Actions

Evaluation Procedure: The evaluation procedure for Marie Skłodowska-Curie actions applies. Please read the dedicated section in the Marie Skłodowska-Curie part of the work programme.

	The maximum length of a proposal is 30 pages, excluding the annexes.
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Consortium agreement: Not applicable - this is a mono-beneficiary action.

Trans-national cooperation among Marie Skłodowska-Curie National Contact Points

H2020-MSCA-NCP-2017

MSCA-NCP-2017: MSCA National Contact Points

Objective: Facilitate trans-national co-operation between National Contact Points (NCPs) for the Marie Skłodowska-Curie actions (MSCA), with a view to identifying and sharing good practices and raising the general standard of support to applicants, taking into account the diversity of actors.

Scope: Support will be given to a consortium of formally nominated NCPs in the area of MSCA. The activities will be tailored according to the nature of the area, and the priorities of the NCPs concerned. Various mechanisms may be included, such as benchmarking, joint workshops, enhanced cross-border brokerage events, training sessions linked to MSCA as well as to [Responsible Research and Innovation](#), twinning schemes, etc. Special attention will be given to enhancing the competence of MSCA NCPs, including helping less experienced NCPs rapidly acquire the know-how accumulated in other countries. It will also be encouraged to build up cooperation with other networks to increase visibility to potential beneficiaries, especially in the non-academic sector.

The focus throughout should be on issues specific to MSCA and should not duplicate actions foreseen in the NCP network for quality standards and horizontal issues under 'Science with and for Society'.

Only NCP organisations from EU Member States, Associated Countries, and third countries which have been officially appointed by the relevant national authorities are eligible to participate in and receive funding for this action.

The consortium should have a good representation of experienced and less experienced NCPs.

Submission of a single proposal is encouraged. NCPs from EU Member States, Associated Countries or third countries choosing not to participate as a member of the consortium are nevertheless invited and encouraged to participate in the project activities (e.g. workshops), and the costs incurred by the consortium for such participation (e.g. travel costs paid by the consortium) may be included in the estimated budget and be eligible for funding by the Commission.

The Commission will only fund one proposal under this topic. The maximum duration of support will be three years from the starting date specified in the grant agreement.

Expected Impact:

- An improved and professionalised NCP service across Europe, therefore helping simplify access to Horizon 2020 calls, lowering the entry barriers for newcomers, and raising the average quality of submitted proposals.
- A more consistent level of NCP support services across Europe.

Type of Action: Coordination and support action

Conditions for the Trans-national cooperation among Marie Skłodowska-Curie National Contact Points call

Opening date(s), deadline(s), indicative budget(s):¹⁸

Topics (Type of Action)	Budgets (EUR million)	Deadlines
	2017	
Opening: 10 Jan 2017		
MSCA-NCP-2017 (CSA)	1.50	04 May 2017
Overall indicative budget	1.50	

Indicative timetable for evaluation and grant agreement signature:

For single stage procedure:

- Information on the outcome of the evaluation: Maximum 5 months from the final date for submission; and
- Indicative date for the signing of grant agreements: Maximum 8 months from the final date for submission.

Eligibility and admissibility conditions: The conditions are described in parts B and C of the General Annexes to the work programme.

Evaluation criteria, scoring and threshold: The criteria, scoring and threshold are described in part H of the General Annexes to the work programme

Evaluation Procedure: The procedure for setting a priority order for proposals with the same score is given in part H of the General Annexes.

The full evaluation procedure is described in the relevant [guide](#) published on the Participant Portal.

¹⁸ The Director-General responsible for the call may decide to open the call up to one month prior to or after the envisaged date(s) of opening.

All deadlines are at 17.00.00 Brussels local time.

The Director-General responsible may delay the deadline(s) by up to two months.

The deadline(s) in 2017 are indicative and subject to a separate financing decision for 2017.

The budget amounts for the 2017 budget are indicative and will be subject to a separate financing decision to cover the amounts to be allocated for 2017.

HORIZON 2020 – Work Programme 2016-2017
Marie Skłodowska-Curie Actions

	The maximum length of a proposal is 30 pages, excluding the annexes.
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Consortium agreement: Members of consortium are required to conclude a consortium agreement, in principle prior to the signature of the grant agreement.

Other actions¹⁹

1. Evaluation of the Marie Skłodowska-Curie actions

To assess the long-term impact of the Marie Curie Actions under the Seventh Framework Programme and the first results and outcomes of Marie Skłodowska-Curie actions under Horizon 2020.

One specific contract will be concluded.

Type of Action: Public Procurement – existing Framework Contract

Indicative timetable: First quarter of 2016

Indicative budget: EUR 0.50 million from the 2016 budget

2. Alumni services

To further increase the impact of the Marie Skłodowska-Curie actions, networking between Marie Skłodowska-Curie researchers (current and past) will be enhanced through the implementation of alumni services. This could be extended to include Marie Skłodowska-Curie supervisors.

For this purpose, one renewable service contract will be concluded.

Type of Action: Public Procurement

Indicative timetable: Second quarter of 2016

Indicative budget: EUR 1.10 million from the 2016 budget and EUR 1.10 million from the 2017 budget

3. Events and outreach

During 2016 and 2017, the Commission intends to organise several events (conferences and workshops) dedicated to the Marie Skłodowska-Curie actions, and to contribute to leading research conferences. Moreover, a dedicated campaign will be organised to take a novel approach in communication of research and to disseminate results of the Marie Skłodowska-Curie-funded projects to the general public.

For this, maximum 10 specific contracts will be concluded.

Type of Action: Public Procurement – existing Framework Contract(s).

¹⁹ The budget amounts for the 2016 budget are subject to the availability of the appropriations provided for in the draft budget for 2016 after the adoption of the budget 2016 by the budgetary authority or, if the budget is not adopted, as provided for in the system of provisional twelfths.

The budget amounts for the 2017 budget are indicative and will be subject to a separate financing decision to cover the amounts to be allocated for 2017.

Indicative timetable: Throughout 2016 and 2017.

Indicative budget: EUR 0.57 million from the 2016 budget and EUR 0.32 million from the 2017 budget

4. Studies

To provide in-depth analysis of various aspects relevant for the successful implementation of the Marie Skłodowska-Curie actions: mobility aspects, multi- and interdisciplinarity, impact of the SME participation in the programme, identification of best practices in supervision.

Maximum four specific contracts.

Type of Action: Public Procurement – existing Framework Contract.

Indicative timetable: Throughout 2016 and 2017.

Indicative budget: EUR 0.40 million from the 2016 budget and EUR 0.40 million from the 2017 budget

HORIZON 2020 – Work Programme 2016-2017
Marie Skłodowska-Curie Actions

Budget²⁰

	Budget line(s)	2016 Budget EUR million	2017 Budget EUR million
Calls			
H2020-MSCA-ITN-2016		370.00	
	<i>from 15.030101</i>	<i>370.00</i>	
H2020-MSCA-IF-2016		218.50	
	<i>from 15.030101</i>	<i>218.50</i>	
H2020-MSCA-RISE-2016		80.00	
	<i>from 15.030101</i>	<i>80.00</i>	
H2020-MSCA-COFUND-2016		80.00	
	<i>from 15.030101</i>	<i>80.00</i>	
H2020-MSCA-NIGHT-2016		8.00	
	<i>from 15.030101</i>	<i>8.00</i>	
H2020-MSCA-ITN-2017			430.00
	<i>from 15.030101</i>		<i>430.00</i>
H2020-MSCA-IF-2017			248.00
	<i>from 15.030101</i>		<i>248.00</i>

²⁰ The budget figures given in this table are rounded to two decimal places.

The budget amounts for the 2016 budget are subject to the availability of the appropriations provided for in the draft budget for 2016 after the adoption of the budget 2016 by the budgetary authority or, if the budget is not adopted, as provided for in the system of provisional twelfths.

The budget amounts for the 2017 budget are indicative and will be subject to a separate financing decision to cover the amounts to be allocated for 2017.

HORIZON 2020 – Work Programme 2016-2017
Marie Skłodowska-Curie Actions

H2020-MSCA-RISE-2017			80.00
	<i>from 15.030101</i>		<i>80.00</i>
H2020-MSCA-COFUND-2017			80.00
	<i>from 15.030101</i>		<i>80.00</i>
H2020-MSCA-NCP-2017			1.50
	<i>from 15.030101</i>		<i>1.50</i>
Other actions			
Public Procurement		2.57	1.82
	<i>from 15.030101</i>	<i>2.57</i>	<i>1.82</i>
Estimated total budget		759.07	841.32

Eligibility conditions for Marie Skłodowska-Curie actions

Proposal

A proposal will only be considered eligible if it complies with the eligibility conditions set out in this section, depending on the type of MSC action.

Participating organisations

1. Marie Skłodowska-Curie actions must fulfil the **minimum conditions concerning participating organisations**:

- For **IF**:

The beneficiary must be a legal entity located in an EU Member State or Horizon 2020 associated country and must employ and supervise the researcher during the action.

In addition to the above, for IF European Fellowship (EF) **Society and Enterprise Panel**, the beneficiary must be an entity from the non-academic sector.

- For **ITN**:

For **ITN European Training Networks (ETN)** and **ITN European Joint Doctorates (EJD)**: the consortium must be composed of at least three beneficiaries located in three different EU Member States or Horizon 2020 associated countries. All three legal entities shall be independent of each other.

In order to reach the objectives of EJD, at least three beneficiaries must be entitled to award doctoral degrees.²¹ Letters of commitment to award the joint, double or multiple doctoral degrees must be included in the proposal.

For **ITN European Industrial Doctorates (EID)**: the consortium must be composed of at least two independent beneficiaries located in two different EU Member States or Horizon 2020 associated countries.

Given the nature of EID, at least one beneficiary must be from the academic sector and at least one beneficiary must come from the non-academic sector, primarily enterprises. Should none of the academic beneficiaries be entitled to award a doctoral degree²², a university entitled to award a doctoral degree must be associated to the project as a partner organisation. However, the obligation of the beneficiary to recruit, host and train the researcher remains unchanged.

For all ITN: all beneficiaries are required to host at their premises and supervise recruited researchers.

The overall EU contribution for ITN actions is limited to a maximum 540 person-months. For EID with only two beneficiaries, this limit is set to 180.

²¹ For EJD, at least two institutions conferring a joint, double or multiple doctoral degree must be established in an EU Member State and/or Associated Country.

²² Every time the document refers to doctoral degrees, this means that the degrees have to be recognised as such by the relevant authorities of the country or countries concerned.

Not more than 40% of the requested EU contribution may be allocated to beneficiaries in the same country or to any one international European interest organisation or international organisation (except for EID with only two beneficiaries).

- For **RISE**: the consortium must be created by at least three legal entities, independent of each other and established in at least three different countries. At least two of them must be beneficiaries located in an EU Member State or Horizon 2020 associated country. If all participating organisations are from the same sector (i.e. either only academic or only non-academic), there must be at least one partner organisation from a third country. Above this minimum, the participation of beneficiaries/partner organisations from any country is possible under the conditions provided by the Horizon 2020 Rules for Participation Regulation No 1290/2013.

For RISE actions, only legal entities that are established in EU Member States or Horizon 2020 associated countries can be beneficiaries; only legal entities that are established in third countries can be partner organisations.

The overall EU contribution for RISE actions is limited to a maximum 540 person-months.

- For **COFUND**: the beneficiary must be a legal entity established in an EU Member State or Horizon 2020 associated country that funds or manages doctoral programmes or fellowship programmes for researchers.

2. In addition, the following rules apply:

- The eligibility criteria formulated in Commission notice Nr 2013/C 205/05 (OJEU C 205 of 19.07.2013, pp. 9-11) apply for all actions under this part of the Work Programme, including to partner organisations and to third parties that receive financial support under the action (in accordance with Article 137 of the Financial Regulation No 966/2012), notably COFUND.
- Natural or legal persons, groups or non-State entities which are covered by the Council sanctions in force are not eligible to participate in EU programmes. (Please see the consolidated list of persons, groups and entities subject to EU sanctions, available at: http://eeas.europa.eu/cfsp/sanctions/consol-list_en.htm.)
- Given that the EU does not recognise the illegal annexation of Crimea and Sevastopol, legal persons established in the Autonomous Republic of Crimea or the city of Sevastopol are not eligible to participate in any capacity. This criterion also applies in cases where the action involves financial support given by grant beneficiaries to third parties established in the Autonomous Republic of Crimea or the city of Sevastopol (in accordance with Article 137 of the Financial Regulation No 966/2012). Should the illegal annexation of the Autonomous Republic of Crimea and the City of Sevastopol end, this Work Programme will be revised.



1. Once the minimum eligibility conditions are fulfilled and provided that the conditions laid down in this Work Programme are met, any other organisation from any country may participate – under the conditions set out in Part A of the General Annexes to the Work Programme.

2. For the minimum eligibility conditions: if one of the participants is an **international European interest organisation**, the EU's **Joint Research Centre (JRC)** or an '**entity created under Union law**' (see Article 9(2) of the Horizon 2020 Rules for Participation Regulation), it shall be considered to be established in an EU Member State or Horizon 2020 associated country other than the EU Member States / Horizon 2020 associated countries in which the other participants are established.

3. The following **definitions** apply:

'Beneficiaries' are the legal entities that sign the grant agreement and have the responsibility for the proper implementation of the action. They contribute directly to the implementation of the research, transfer of knowledge and training activities. Depending on the type of MSC action, this involves recruiting, supervising, hosting or seconding researchers or managing and funding programmes.

'Partner organisations' contribute to the implementation of the action, but do not sign the grant agreement. Partner organisations may not employ the researchers under the action²³.

Partner organisations identified in the proposal must include a letter of commitment (with the proposal) to ensure their real and active participation in the network. (The contribution of any partner organisations for which no such evidence of commitment is submitted will not be taken into account during evaluation).

When partner organisations are involved, beneficiaries are encouraged to sign a partnership agreement with them (for the internal relationship between participating organisations). These partnership agreements must comply with the grant agreement.

'Academic sector' means public or private higher education establishments awarding academic degrees, public or private non-profit research institutes whose primary mission is to pursue research, international organisations and international European interest organisations²⁴.

'Non-academic sector' means any socio-economic actor not included in the academic sector and fulfilling the requirements of the Horizon 2020 Rules for Participation. This includes all fields of future workplaces of researchers, from industry to business, government, civil society organisations, cultural institutions, etc.

²³ For COFUND, this restriction does not apply.

²⁴ 'International European interest organisation' means an international organisation, the majority of whose members are EU Member States or Horizon 2020 associated countries, and whose principal objective is to promote scientific and technological cooperation in Europe (see Article 2.1(12) of the Horizon 2020 Rules for Participation Regulation No 1290/2013).

Recruited researchers / seconded staff

1. ITN, IF and COFUND actions must include the recruitment of researchers (for ITN and IF: they must be recruited by the beneficiary; for COFUND: they can be recruited by a partner organisation).

RISE actions must include the secondment of staff members.

2. Supported researchers and staff members may be of any nationality. They must move from one country to another to broaden or deepen their competences.

For IF Global Fellowships (GF) and the European Fellowships (EF) Reintegration Panel: the researchers must be nationals or long-term residents of EU Member States and Horizon 2020 associated countries. Long-term residence means a period of full-time research activity in the EU or Horizon 2020 associated countries of at least 5 consecutive years.

3. For ITN, IF and COFUND: supported **researchers must be** either early-stage or experienced researchers, depending on the action:

- For ITN and COFUND Doctoral Programmes (DP): researchers must be **early-stage researchers (ESR)**, i.e. at the time of recruitment, be in the first four years (full-time equivalent research experience) of their research careers and have not been awarded a doctoral degree.
- For IF and COFUND Fellowship Programmes (FP): researchers must be **experienced researchers (ER)**, i.e. at the time of the call deadline (for IF) or recruitment (for COFUND), be in possession of a doctoral degree²⁵ or have at least four years of full-time equivalent research experience.

For RISE: supported **staff members must be** (early-stage or experienced) researchers or administrative, managerial or technical staff supporting the research and innovation activities under the action. They must be actively engaged in or linked to research and/or innovation activities for at least six months (full-time equivalent) at the sending institution, before the first period of secondment.

 **Note:**

'Full-time equivalent research experience' is measured from the date when the researcher obtained the degree entitling him/her to embark on a doctorate (either in the country in which the degree was obtained or in the country in which the researcher is recruited or seconded) – even if a doctorate was never started or envisaged.

4. For ITN, IF and COFUND: researchers must comply with the **mobility rule**²⁶.

²⁵ A medical doctor degree will not be accepted by itself as equivalent to a doctoral degree. To be considered as experienced researchers, medical doctors need to provide the certificates of a doctoral degree or information on their research experience.

²⁶ Existing programmes applying for COFUND can deviate from this rule if duly justified in the proposal by the applicant.

Researchers may not have resided or carried out their main activity (work, studies, etc.) in the country of their host organisation for more than 12 months in the 3 years immediately before the reference date: the call deadline (IF), or recruitment (ITN/COFUND Doctoral programmes (DP)) or either of these two points in time (COFUND Fellowship programmes (FP)). Compulsory national service and/or short stays such as holidays are not taken into account.

For 'international European interest organisations' or 'international organisations', the researchers may not have spent more than 12 months in the 3 years immediately before the call deadline/recruitment, in the same appointing organisation.

For IF Society and Enterprise Panel, Career Restart Panel and Reintegration Panel or equivalent activities under COFUND, researchers may not have resided or carried out their main activity in the country of their host organisation for more than 3 years in the 5 years immediately before the reference date.

For RISE: secondments are not subject to a mobility rule.

5. The minimum/maximum duration of the funded recruitment/secondment is:

- For ITN:

Recruitment/fellowship duration: 3-36 months

Secondments are possible for up to 30% of the fellowship duration (except for EID and EJD – where time spent at other participating organisations, in line with the proposal description, is not affected by this limitation).

For ITN EID, researchers must spend at least 50% of their time in the non-academic sector. The inter-sectoral mobility has to be between beneficiaries located in different countries.

- For IF:

IF European Fellowships (EF): recruitment/fellowship duration: 12-24 months

IF Global Fellowships (GF): recruitment/fellowship duration: 24-36 months (12-24 months for the outgoing phase plus 12 month return phase in Europe)

- For RISE:

Secondment duration: 1-12 months

Secondments may be split into several stays not exceeding 12 months in total and not going beyond the project duration. The splits must be justified and considered beneficial for the transfer of knowledge activities.

The exchanged staff members must be guaranteed reintegration into the sending institution, thus maximising the impact of the action for knowledge sharing and long-term collaboration.

- For COFUND:

Recruitment/fellowship duration: minimum 3 months

For fellowships where the main part of the research training activity does not take place in an EU Member State or an Horizon 2020 associated country, the return phase to a Member State/associated country may not be more than 50% of the total duration of the research training activity.

Duration of the action

The maximum duration of the action will be the following:

- For ITN: 48 months from the starting date set out in the grant agreement.
- For IF: equals the duration of support granted to the researcher.
- For RISE: 48 months from the starting date set out in the grant agreement.
- For COFUND: 60 months from the starting date set out in the grant agreement.

For ITN and COFUND, the maximum duration also includes the time that is needed to recruit or select the researchers.

Evaluation rules for Marie Skłodowska-Curie actions

Award criteria, scores and weighting

1. Proposals will be evaluated by experts, on the basis of the **award criteria** 'excellence', 'impact' and 'quality and efficiency of the implementation' (see Article 15 of the Horizon 2020 Rules for Participation Regulation No 1290/2013).

The aspects to be considered in each case and the **weighting** depend on the type of Marie Skłodowska-Curie action as set out in the tables below.

2. Evaluation **scores** will be awarded for each of the criteria, and not their individual elements. Each criterion will be scored from 0 to 5. Scores with a resolution of one decimal place may be awarded. The total score will be subject to a threshold of 70%.

3. If necessary, the panel will determine a **priority order** for proposals which have been awarded the same score within a ranked list. When the total scores are equal, priority will be based on scores for individual award criteria. For each action the priority order of the criteria is detailed in the tables below.

If necessary, any further prioritisation will be based on other appropriate characteristics, to be decided by the panel, related to the contribution of the proposal to the European Research Area (ERA) and/or general objectives mentioned in the work programme (e.g. intersectoral mobility, international co-operation, favourable employment and working conditions).

Whether or not such a prioritisation is carried out will depend on the available budget or other call conditions.

ITN: Marie Skłodowska-Curie Innovative Training Networks		
Excellence	Impact	Quality and efficiency of the implementation
Quality, innovative aspects and credibility of the research programme (including inter/multidisciplinary, intersectoral and, where appropriate, gender aspects)	Enhancing the career perspectives and employability of researchers and contribution to their skills development	Coherence and effectiveness of the work plan , including appropriateness of the allocation of tasks and resources , (including awarding of the doctoral degrees for <i>EID</i> and <i>EJD</i> projects)
Quality and innovative aspects of the training programme (including transferable skills, inter/multidisciplinary, intersectoral and, where appropriate, gender aspects)	Contribution to structuring doctoral / early-stage research training at the European level and to strengthening European innovation capacity , including the potential for: a) meaningful contribution of the non-academic sector to the doctoral/research training, as appropriate to the implementation mode and research field b) developing sustainable joint doctoral degree structures (for <i>EJD</i> projects only)	Appropriateness of the management structures and procedures , including quality management and risk management (with a mandatory joint governing structure for <i>EID</i> and <i>EJD</i> projects)
Quality of the supervision (including mandatory joint supervision for <i>EID</i> and <i>EJD</i> projects)	Quality of the proposed measures to exploit and disseminate the project results	Appropriateness of the infrastructure of the participating organisations
Quality of the proposed interaction between the participating organisations	Quality of the proposed measures to communicate the project activities to different target audiences	Competences, experience and complementarity of the participating organisations and their commitment to the programme
50%	30%	20%
Weighting		
1	2	3
Priority in case of ex aequo		

IF: Marie Skłodowska-Curie Individual Fellowships		
Excellence	Impact	Quality and efficiency of the implementation
Quality and credibility of the research/innovation project; level of novelty, appropriate consideration of inter/multidisciplinary and gender aspects	Enhancing the potential and future career prospects of the researcher	Coherence and effectiveness of the work plan
Quality and appropriateness of the training and of the two way transfer of knowledge between the researcher and the host	Quality of the proposed measures to exploit and disseminate the project results	Appropriateness of the allocation of tasks and resources
Quality of the supervision and of the integration in the team/institution	Quality of the proposed measures to communicate the project activities to different target audiences	Appropriateness of the management structure and procedures , including risk management
Capacity of the researcher to reach or re-enforce a position of professional maturity/independence		Appropriateness of the institutional environment (infrastructure)
50%	30%	20%
Weighting		
1	2	3
Priority in case of ex aequo		

RISE: Marie Skłodowska-Curie Research and Innovation Staff Exchange		
Excellence	Impact	Quality and efficiency of the implementation
Quality and credibility of the research/innovation project; level of novelty and appropriate consideration of inter/multidisciplinary, intersectoral and gender aspects	Enhancing the potential and future career perspectives of the staff members	Coherence and effectiveness of the work plan, including appropriateness of the allocation of tasks and resources
Quality and appropriateness of knowledge sharing among the participating organisations in light of the research and innovation objectives.	Developing new and lasting research collaborations, achieving transfer of knowledge between participating organisations and contribution to improving research and innovation potential at the European and global levels	Appropriateness of the management structures and procedures, including quality management and risk management
Quality of the proposed interaction between the participating organisations	Quality of the proposed measures to exploit and disseminate the project results	Appropriateness of the institutional environment (hosting arrangements, infrastructure)
	Quality of the proposed measures to communicate the project activities to different target audiences	Competences, experience and complementarity of the participating organisations and their commitment to the project
50%	30%	20%
Weighting		
1	2	3
Priority in case of ex aequo		

COFUND: Marie Skłodowska-Curie Co-funding of regional, national and international programmes		
Excellence	Impact	Quality and efficiency of the implementation
Quality of the selection / recruitment process for the researchers (transparency, composition and organisation of selection committees, evaluation criteria, equal opportunities)	Enhancing the potential and future career perspectives of researchers; Strengthening human resources on regional, national or international level	Coherence, effectiveness and appropriateness of the work plan
Quality of the research options offered by the programme in terms of science, interdisciplinarity, intersectorality and level of transnational mobility	Aligning practices of participating organisations with the principles set out by the EU for human resources development in research and innovation	Appointment conditions of researchers
Quality of career guidance and training , including supervision arrangements, training in transferable skills	Quality of the proposed measures to exploit and disseminate the results	Competence of the participant to implement the programme
	Quality of the proposed measures to communicate the results to different target audiences	
50%	30%	20%
Weighting		
1	2	3
Priority in case of ex aequo		

Evaluation procedure

1. In ITN, IF and RISE, proposals will normally be **evaluated by** one of eight 'main evaluation **panels**': Chemistry (CHE), Social Sciences and Humanities (SOC), Economic Sciences (ECO), Information Science and Engineering (ENG), Environment and Geosciences (ENV), Life Sciences (LIF), Mathematics (MAT), Physics (PHY).

For ITN European Industrial Doctorates (EID) and European Joint Doctorates (EJD), proposals will be ranked in specific multidisciplinary panels.

For IF, there are – in addition to the main evaluation panels – three separate multidisciplinary panels: Society and Enterprise Panel (SE), Career Restart Panel (CAR) and the Reintegration Panel (RI).

In COFUND, the evaluation will be organised in two different panels: Doctoral programmes (DP) and Fellowship programmes (FP).

Each panel establishes a ranked list.

The distribution of the indicative budget of the call will be proportional to the number of eligible proposals received in each panel, except where a specific budget for a multidisciplinary panel has been fixed in the call. If the budget allocated to any panel exceeds the requirements of all proposals positively evaluated²⁷ in that panel, the excess budget will be reallocated to the other panels based on the distribution as above. Equally, if the allocated funding to a panel is insufficient to fund the highest ranked proposal in that panel, the necessary budget will be transferred from the other panels based on the distribution as above, in order to ensure that the highest ranked proposal can be funded.

2. Proposals will not be evaluated anonymously.

3. Proposals may be evaluated remotely.

4. In ITN and IF, the consensus score for each award criterion may be the average of the corresponding scores attributed by the individual expert evaluators.

5. As part of the evaluation by independent experts, a panel review will recommend one or more ranked lists for the proposals under evaluation, following the scoring systems indicated in this work programme.

The full evaluation procedure is described in the [relevant guide](#) published on the Participant Portal.

²⁷ Measured as proposals having passed all relevant evaluation thresholds.

EU contribution and applicable unit costs

The EU contribution under the Marie Skłodowska-Curie actions is based on unit costs expressed in person-months. They have been established in line with the methodology set up by Commission Decision No C(2013) 8194²⁸.

1. ITN / IF / COFUND

The beneficiary (beneficiary or partner organisation in COFUND) must recruit each eligible researcher under an employment contract or 'equivalent direct contract' with full social security coverage (including sickness, parental, unemployment and invalidity benefits, pension rights, benefits in respect of accidents at work and occupational diseases) except where national legislation prohibits this possibility.

When an employment contract cannot be provided, the beneficiary (beneficiary or partner organisation in COFUND) must recruit the researcher under a 'fixed-amount fellowship'. In this case, the living allowance²⁹ will be halved and the beneficiary must ensure that the researcher enjoys minimum social security coverage.

ITN / IF

The yearly reference rates for calculating the living allowance of researchers recruited under an employment contract/ equivalent direct contract are:

- for early-stage researchers (ITN): 37 320 EUR/year
- for experienced researchers (IF): 55 800 EUR/year

The above amounts include all compulsory deductions under national legislation. Rates for individual countries are obtained by applying the country correction coefficients of table 2.

The beneficiary must pay to the recruited researchers at least the reference allowances (minus all compulsory deductions under national legislation in the context of the project). A top-up may be paid to the researchers in order to complement this contribution.

In addition to the living allowance, the beneficiary must pay a mobility allowance and for some categories of researchers, a family allowance, as specified in table 1. In this context family is defined as persons linked to the researcher by (i) marriage, or (ii) a relationship with equivalent status to a marriage recognised by the legislation of the country where this relationship was formalised; or (iii) dependent children who are actually being maintained by the researcher.

The rates from table 1 apply to researchers devoting themselves to their project on a full-time basis (pro-rata for parts of years). In exceptional cases where researchers, in agreement with the beneficiary and with prior approval by the Research Executive Agency (REA), implement

²⁸ COMMISSION DECISION authorising the use of reimbursement on the basis of unit costs for Marie Skłodowska-Curie actions under the Horizon 2020 Framework Programme

²⁹ Researcher unit cost in case of COFUND

their project on a part-time basis, the rates will apply proportionally without the possibility that the total amounts will exceed those that apply for full-time equivalent periods. The same principle will also apply in case of split of a project into several distinct periods.

COFUND

Table 1 specifies the researcher unit cost and the institutional unit cost for the co-funding of regional, national and international programmes. The EU contribution must be used exclusively as contribution to the management of the programme and to the living allowance of the researchers, which is solely for the benefit of the researchers appointed under the programme and includes all compulsory deductions under national legislation. Other cost items (such as research costs, travel, family and mobility allowances, indirect costs) may be funded through other resources including EU programmes other than Horizon 2020.

Applicants must specify in their proposal the total cost of the proposal and in particular, the amounts that will be provided for the benefit of the researcher and for the organisation that is hosting the researcher. This information will be needed to evaluate the adequateness of employment and working conditions of the researchers.

The remuneration costs (salaries, social security contributions, taxes and other costs included in the remuneration) for the benefit of the researchers must be:

- for researchers recruited under an employment contract: not lower than EUR 2 597 (for early-stage researchers) and EUR 3 675 (for experienced researchers);
- for researchers recruited under a fixed-amount fellowship: not lower than EUR 1 298.50 (for early-stage researchers) and EUR 1 837.50 (for experienced researchers).

2. RISE

The top-up allowance specified in table 1 must be solely for the benefit of the seconded staff member.

HORIZON 2020 – Work Programme 2016-2017
Marie Skłodowska-Curie Actions

Table 1: EU contribution [in EUR]

Marie Skłodowska-Curie Action	Researcher unit cost person/month			Institutional unit cost person/month	
	Living allowance*	Mobility allowance	Family allowance	Research, training and networking costs	Management and indirect costs
Innovative Training Networks	3 110	600	500	1 800	1 200
Individual Fellowships	4 650	600	500	800	650

* A country correction coefficient applies to the living allowance. This coefficient is the one applicable to the country of the beneficiary, as listed in Table 2. The only exception are IF Global Fellowships with two different country correction coefficients:

- for the outgoing phase: the coefficient of the country where the researcher is hosted (i.e. the country of the partner organisation)
- for the return phase: the coefficient of the country where the researcher returns to (i.e. the country of the beneficiary).

HORIZON 2020 – Work Programme 2016-2017

Marie Skłodowska-Curie Actions

Marie Skłodowska-Curie Action	Staff member unit cost Top-up allowance person/month	Institutional unit cost person/month	
		Research, training and networking costs	Management and indirect costs
Research and Innovation Staff Exchange	2 000	1 800	700

Marie Skłodowska-Curie Action	Researcher unit cost person/month		Institutional unit cost person/month
Co-funding of regional, national and international programmes	Early-stage researchers	1 855**	325****
	Experienced researchers	2 625***	

** This figure represents 50% cofunding of 3710 EUR, the amount established in Commission Decision No C(2013) 8194

*** This figure represents 50% cofunding of 5250 EUR, the amount established in Commission Decision No C(2013) 8194

**** This figure represents 50% cofunding of 650 EUR, the amount established in Commission Decision No C(2013) 8194

Table 2: Country correction coefficients (CCC) for ITN and IF living allowances

For countries where the correction coefficient is not indicated, the Commission will decide on a case-by-case basis.

Country Code ³⁰	CCC
EU Member States	
AT	104.8%
BE	100.0%
BG	71.5%
CY	91.8%
CZ	83.8%
DE	98.8%
DK	135.3%
EE	78.3%
EL	92.7%
ES	97.6%
FI	116.6%
FR	111.0%
HR	97.5%
HU	76.2%
IE	113.5%
IT	106.7%

LT	73.1%
LU	100.0%
LV	75.9%
MT	89.6%
NL	104.3%
PL	76.4%
PT	89.1%
RO	68.3%
SE	111.7%
SI	86.1%
SK	82.6%
UK	120.3%
Horizon 2020 associated countries	
AL	76.1%
BA	73.6%
CH	113.1%
FO	134.1%
IL	108.7%
IS	116.6%
MD	61.1%
ME	66.9%
MK	68.4%
NO	131.9%
RS	67.1%

TR	86.6%
UA	92.3%
Third countries	
AM	89.9%
AO	114.6%
AR	58.5%
AU	105.0%
AZ	93.0%
BB	116.6%
BD	47.2%
BF	93.8%
BJ	92.6%
BM	151.5%
BO	51.3%
BR	92.0%
BW	55.3%
BY	65.0%
BZ	75.3%
CA	86.4%
CD	127.6%
CF	114.3%
CG	124.9%
CI	102.0%
CL	67.1%

CM	103.3%
CN	85.0%
CO	76.6%
CR	76.7%
CU	83.8%
CV	76.4%
DJ	93.4%
DO	66.9%
DZ	81.7%
EC	68.8%
EG	48.6%
ER	61.2%
ET	85.2%
FJ	68.1%
GA	113.1%
GE	89.5%
GH	68.2%
GM	67.7%
GN	60.4%
GT	78.8%
GW	102.7%
GY	58.9%
HK	93.8%
HN	69.0%

³⁰ [ISO 3166 alpha-2](#), except for Greece and the United Kingdom (EL and UK used respectively instead of GR and GB).

HORIZON 2020 – Work Programme 2016-2017***Marie Skłodowska-Curie Actions***

HT	108.7%
ID	75.3%
IN	52.8%
JM	94.9%
JO	75.5%
JP	115.9%
KE	78.1%
KG	83.1%
KH	70.5%
KR	105.2%
KZ	100.2%
LA	77.7%
LB	86.4%
LI	110.0%
LK	61.6%
LR	100.1%
LS	56.7%
LY	60.0%
MA	83.5%

MG	80.0%
ML	90.4%
MR	64.5%
MU	72.7%
MW	76.0%
MX	70.4%
MY	71.6%
MZ	71.6%
NA	68.3%
NC	128.9%
NE	87.9%
NG	92.4%
NI	57.3%
NP	73.5%
NZ	94.1%
PA	57.0%
PE	75.5%
PG	83.0%
PH	65.8%

PK	49.4%
PS	100.4%
PY	71.9%
RU	115.5%
RW	87.3%
SA	84.8%
SB	93.3%
SD	65.1%
SG	102.5%
SL	85.2%
SN	86.2%
SR	50.6%
SV	74.3%
SY	74.8%
SZ	56.8%
TD	125.3%
TG	88.7%
TH	65.0%
TJ	64.9%

TL	78.3%
TN	70.5%
TO	85.0%
TT	74.1%
TW	83.6%
TZ	65.2%
UG	65.7%
US	99.4%
UY	75.3%
UZ	51.4%
VE	70.0%
VN	51.1%
VU	112.6%
WS	75.8%
XK	58.6%
YE	68.1%
ZA	55.8%
ZM	66.4%
ZW	47.2%

Letter of Support

29th May 2015

Professor May Cassar
UCL Institute for Sustainable Heritage
The Bartlett School of Environment, Energy and Resources (BSEER)
University College London
Central House
14 Upper Woburn Place
London WC1H 0NN

EPSRC CDT Science and Engineering in Arts, Heritage and Archaeology (SEAHA)

At University Tor Vergata, we would like to express our strong support for the Centre for Doctoral Training Science and Engineering in Arts, Heritage and Archaeology, supported by the UK Engineering and Physical Sciences Research Council and established at University College London, University of Oxford and University of Brighton. We welcome this internationally important research and training programme, supported by a network of heritage, research and industrial partners.

At our University, cultural heritage research also has a strong tradition. Our current programme of research includes topics as diverse as (i) research into ancient DNA and optical dating, population genetics, geo-geography, paleo-genetics and evolution, for identification and recovery of human and biological remains, (ii) chemistry and biochemistry of cultural heritage for studies of biodegradation at archaeological sites, (iii) non invasive and non destructive analysis of materials using optical and particle probes, neutron spectroscopy, biological and biochemistry tools, light and laser based optics among others. The probes currently used at Tor Vergata, are X-ray and neutrons, on a complementary scale, because of different type of interaction with matter, and are all non-invasive and non-destructive.

At Tor Vergata, we see a number of possibilities for a meaningful contribution to the success of the CDT:

- We will develop research case studies with PhD/EngD students, in collaboration with UCL, University of Oxford and University of Brighton, and partners.
- We will support the CDT by co-organising public engagement events and conferences, as well as field visits, and will consider making our premises available for such activities.
- We will take part in teaching/training, provide access to data and collections (subject to approval on a case by case basis), and to research facilities, as appropriate, including student supervision.
- We will liaise with and develop opportunities for our members to offer placements to MRes/PhD/EngD students and collaborate on projects through supervision, access to development labs and expertise.

Il Rettore

- We will co-develop cohort activities, such as seminars, conferences, and public engagement events.
- We will develop funding opportunities, by working with CDT partners to contribute towards a stipend fund, e.g. for non-UK students and non-EP SRC funded students.

At the University of Tor Vergata, we are interested in becoming a partner and are excited to be supporting this important initiative.

Prof Giuseppe Novelli





THIS AGREEMENT dated _____ is made by and between:

- (1) **UNIVERSITY COLLEGE LONDON**, incorporated in the United Kingdom by Royal Charter, whose address is Gower Street, London WC1E 6BT ("UCL");
- (2) **XXX**, Company No. <INSERT> whose registered office is at <INSERT> ("XXX");
- (3) **YYY**, Company No. <INSERT> whose registered office is <INSERT> ("YYY");

The above are referred to below individually as "Party" and collectively as "the Parties".

WHEREAS

- (A) The Parties wish to enter into this Agreement in order to record their collaboration on a post-graduate studentship (doctoral studentship) under the rules laid down by the Engineering and Physical Sciences Research Council ("EPSRC") for the Science and Engineering in Art, Heritage and Archaeology (SEAHA) Centre for Doctoral Training.
- (B) The Parties acknowledge that the purpose of the Project is to enable the Student to submit a thesis for examination in accordance with UCL's regulations. The Parties further acknowledge that the research is intended to lead to academic publications in furtherance of the Student's career.

1. DEFINITIONS

1.1 The following expressions shall have the following meanings:

- 1.1.1 "UCL Supervisor" means **zzz** or his/her successor, appointed under Clause 9.4.
- 1.1.2 "Affiliate" means any entity directly or indirectly controlling or controlled by or in common control with such entity, where "control" is defined as the ownership of at least sixty percent (60%) of the equity or beneficial interests of such entity, or the right to vote for or appoint a majority of the board of directors or other governing body of such entity.
- 1.1.3 "Agreement" means this document including its Annexes.
- 1.1.4 "Background Intellectual Property" means any Intellectual Property other than the Results that is introduced for the purpose of undertaking the Project and (i) that is owned or controlled by a Party (and in the case of UCL limited to that owned or controlled by the UCL Supervisor); and (ii) that is or has been created or developed independently of the Project, whether prior to or during the Project Period.
- 1.1.5 "XXX Supervisor" means **xxx** or his successor, as appointed from time to time by <INSERT>.
- 1.1.6 "Confidential Information" means confidential or secret information in any form directly or indirectly belonging or relating to a Party, its Affiliates, its or their business or affairs, disclosed by one and received by another pursuant to or in the course of the Project. Any Confidential Information disclosed by a party shall be marked with, or communicated as being, 'Confidential'.
- 1.1.7 "Intellectual Property" means any inventions, designs, information, right in unpatented know-how, specifications, formulae, data, processes, methods, techniques, and other technology; any patent, registered design, copyright, database right, design right, trade mark, application to register any of the aforementioned rights, trade secret and any other intellectual or industrial property right of any nature whatsoever in any part of the world.
- 1.1.8 "YYY Supervisor" means **yyy** or his successor, as appointed from time to time by <INSERT>.

- 1.1.9 "Project" means the programme of work entitled **TITLE** undertaken by the Student and summarised in the Annex 1; and any modifications, deletions or expansions approved in writing by both Parties.
- 1.1.10 "Results" means any Intellectual Property created or developed in the course of and as a result of undertaking the Project.
- 1.1.11 "Student" means the undersigned candidate enrolled at UCL for the purpose of undertaking the Project in fulfilment of the requirements for the award of a higher degree as well as in fulfilment of the requirements of the SEAHA Student Handbook set out in Annex 3.

2. THE PROJECT

- 2.1 The Project shall run for an inclusive period of **4 years** (the "Project Period"), commencing on **1st October 2015**.
- 2.2 The Project will be conducted:
- 2.2.1 mainly in UCL's premises, under the supervision of the UCL Supervisor;
 - 2.2.2 partly in the premises of XXX, under the supervision of the XXX Supervisor;
 - 2.2.3 partly in the premises of YYY, under the supervision of the YYY Supervisor; and
- 2.3 UCL will use all reasonable endeavours to carry out the Project within the scope allowed by the funding and in-kind contributions provided by XXX and YYY. Although UCL will use all reasonable endeavours to perform the research described in Annex 1, UCL does not undertake that the work carried out under or pursuant to this Agreement will lead to any particular result, nor is the success of such work guaranteed.
- 2.4 The Parties will allow the Student to attend one or more of their offices for a minimum of three (3) months during and for the purpose of the Project on mutually agreed dates. The Parties shall inform the student of the Parties' normal safety and security policies in accordance with its duty of care to the Student whilst on such premises. The Student will not be an employee of the Parties during such periods and the Parties will not require the Student to sign any agreement in their own name.
- 2.5 UCL shall keep the Parties informed of the progress of the Project at meetings held at intervals of not more than six (6) months. At the reasonable request of the Parties, UCL shall supplement the meetings with written reports and, before publication, a bound copy of any thesis prepared by the Student on the Project (the "Thesis").

3. XXX, YYY AND UCL CONTRIBUTIONS

- 3.1 Subject to the terms of this Agreement, XXX and YYY agree to make payments to UCL on the dates and in the amounts as set out in Annex 2 to this Agreement.
- 3.2 The full and unencumbered title to all equipment purchased or constructed using funds provided by XXX, for the purpose of the Project, shall vest in UCL. UCL shall acknowledge the financial contribution by XXX towards any such equipment in a reasonable manner.
- 3.3 XXX agrees to make in-kind contributions to UCL, such in-kind contributions shall consist of access throughout the Project Period to the following:
- 3.3.1 seven days per year of supervision time (valued at £ XXXX);
 - 3.3.2 expertise and laboratories (valued at £ XXXX);
 - 3.3.3 historic objects, collections and material properties (valued at £XXXX) and
 - 3.3.4 premises and laboratory, data, infrastructure, instruments and software development.

3.4 YYY agrees to make in-kind contributions to UCL, such in-kind contributions shall consist of access throughout the Project Period to the following:

3.4.1 seven days per year of supervision time (valued at £XXXX);

3.4.2 expertise and laboratories (valued at £XXXX);

3.4.3 historic objects, collections and material properties (valued at £XXXX); and

3.4.4 premises and laboratory, data, infrastructure, instruments and software development

4. INTELLECTUAL PROPERTY

4.1 Nothing in this Agreement shall affect the ownership of Background Intellectual Property.

4.2 Where reasonably free and able to do so and subject to third party rights each Party grants the other a royalty-free, non-transferable, non-exclusive, licence to use Background Intellectual Property for the sole purpose of and only to the extent necessary for the performance of the Project.

4.3 Any Results which are a direct improvement to, addition to, or development of a Party's Background Intellectual Property shall belong to and vest in the owner of such Background Intellectual Property. All remaining Results shall vest and be owned as follows:

4.3.1 To the extent that any of the Results are generated or developed by a Party without the intellectual contribution of another Party, then those Results shall vest in and be owned absolutely by the Party which has generated them. For the avoidance of doubt, where the Student generates or develops any Results without the intellectual contribution of another Party, then those Results shall vest in and be owned absolutely by UCL.

4.3.2 To the extent that any of the Results are generated jointly, then those Results shall vest in and be owned jointly in equal shares by the Parties which generated them. For the avoidance of doubt, where the Student generates or develops any Results jointly with another Party or Parties, UCL shall be considered the joint owner in relation to the Student's contribution.

4.4 In the event that it is or may be possible to obtain any registered Intellectual Property rights in any jointly-owned Results, the joint-owning Parties shall enter good faith negotiations as to whom shall be responsible for the filing and prosecution of such registrable rights on behalf of the Parties. Unless otherwise agreed in writing, the Parties shall use their joint names on applications for registration, and the maintenance and renewal of any registrations, in such countries as the Parties agree in writing, subject to each joint-owning Party co-operating in the provision of reasonably necessary assistance, information and instructions, with respect to the same, provided that:

4.4.1 where any joint-owning Parties wish to apply for registration in any country or countries ("Filing Parties") but other joint-owning Parties do not ("Non-Filing Parties"), then the Filing Parties may do so at their sole cost and expense on behalf of all joint-owning Parties and in their joint names, and Non-Filing Parties shall provide the Filing Parties with reasonably necessary assistance, information, and instruction;

4.4.2 consent shall be obtained from both Parties before any joint application or amendment;

4.4.3 no Party shall abandon any jointly registered Results without first giving the other an option to maintain such application for registration or granted registration at its own cost.

4.5 Each Party hereby grants:

4.5.1 to XXX and its Affiliates, a royalty-free, irrevocable, non-transferable, non-exclusive, non-sublicensable licence to use the granting Party's Results;

4.5.2 to YYY, a royalty-free, irrevocable, non-transferable, non-exclusive, non-sublicensable licence to use the granting Party's Results;

4.5.3 to UCL, a royalty-free, irrevocable, non-transferable, non-exclusive, non-sublicensable licence to use the granting Party's Results.

5. CONFIDENTIALITY

- 5.1** The Parties each undertake to keep confidential and not to disclose to any third party (other than an Affiliate) or to use themselves other than for the purposes of the Project or as permitted under Clauses 4, 6 and 7 of this Agreement any Confidential Information.
- 5.2** Each of the Parties shall disclose Confidential Information of the other only to those of its employees, students, agents and contractors, (and those of its Affiliates) to whom and to the extent to which, such disclosure is necessary for the purposes contemplated under this Agreement and to ensure that all such individuals are bound by terms of confidentiality equivalent to those contained herein.
- 5.3** The obligations contained in this Clause 5 shall remain in full force and effect for the duration of this Agreement and survive the expiry or termination of this Agreement for a period of three (3) years but shall not apply to any Confidential Information which:
- 5.3.1** is publicly known at the time of disclosure to the receiving Party;
 - 5.3.2** after disclosure becomes publicly known otherwise than through a breach of this Agreement by the receiving Party, its students, employees, agents or contractors;
 - 5.3.3** can be shown by reasonable proof by the receiving Party to have reached its hands otherwise than by being communicated by the disclosing Party including being known to it prior to disclosure, or having been developed by or for it wholly independently of the other Party or having been obtained from a third party without any restriction on disclosure on such third party of which the recipient is aware, having made due enquiry;
 - 5.3.4** is required by law, regulation or order of a competent authority (including any regulatory or governmental body or securities exchange) to be disclosed by the receiving Party, provided that, where practicable, the disclosing Party is given reasonable advance notice of the intended disclosure and provided that the relaxation of the obligations of confidentiality shall only last for as long as necessary to comply with the relevant law, regulation or order and shall apply solely for the purposes of such compliance; or
 - 5.3.5** is approved for release, in writing, by an authorised representative of the disclosing Party.

6. PUBLICATIONS

- 6.1** The Project will form part of the primary charitable purpose of UCL; that is, the advancement of education through teaching and research.
- 6.2** In accordance with normal academic practice, all employees, students, agents or appointees of UCL (including the Student and any others who work on the Project) shall be permitted, following the procedures laid down in Clause 6.3, to publish Results or discuss Results in internal seminars, and to give instructions within UCL on questions related to such work.
- 6.3** All proposed publications (including, but not limited to, scientific publications, patent applications and non-confidential presentations) drafted as part of the Project, shall be submitted in writing to the appropriate representative of XXX ("the Reviewing Party") for review at least 30 (thirty) days before submission for publication or before presentation, as the case may be. The Reviewing Party may require the deletion from the publication of any of the Reviewing Party's Confidential Information. The Reviewing Party may also request the delay of the publication if, in the Reviewing Party's reasonable opinion the delay is necessary in order to seek patent or similar protection for Results owned by the Reviewing Party. Any delay imposed on publication shall not last longer than reasonably necessary for the Reviewing Party to obtain the required protection and shall not exceed three (3) months from the date of receipt of the proposed publication by the Reviewing Party. Notification of the requirement for delay in publication must be received by UCL within 30 (thirty) days after receipt of the proposed publication by the Reviewing Party, failing which UCL shall be free to publish and disclose the proposed publication.
- 6.4** Any publication in relation to the Project or the Results in a scientific/academic journal shall give due acknowledgement to the financial and/or intellectual contribution of the others in accordance with standard scientific practice.
- 6.5** Clause 6 does not apply to the submission of the Thesis, which is governed by Clause 7.

7. THESIS

- 7.1** This Agreement shall not prevent or hinder the Student from submitting for degrees of UCL theses based on the Results; or from following UCL's procedures for examination and for admission to postgraduate degree status.

- 7.2 UCL shall submit a draft thesis to the XXX Supervisor and the YYY Supervisor at least thirty (30) days prior to the date for submission for examination.
- 7.3 UCL shall not, without XXX written consent, include in any of the Student's theses relating to the Project any Confidential Information or Results belonging solely to XXX.
- 7.4 UCL shall not, without YYY written consent, include in any of the Student's theses relating to the Project any Confidential Information or Results belonging solely to YYY.

8. CLAUSE NOT USED

9. TERMINATION

- 9.1 Upon a material breach of this Agreement by UCL (which shall include the Student terminating their studentship early), XXX and/or YYY may terminate the Agreement by giving UCL 30 days notice. The notice shall include a detailed statement describing the nature of the breach. If the breach is capable of being remedied and is remedied within the thirty-day notice period, then the termination shall not occur.
- 9.2 Upon a material breach of this Agreement by XXX and/or YYY, the non-breaching Party (or Parties) may terminate the Agreement by giving UCL 30 days notice. The notice shall include a detailed statement describing the nature of the breach. If the breach is capable of being remedied and is remedied within the thirty-day notice period, then the termination shall not occur.
- 9.3 Upon termination of this Agreement XXX shall remain liable as set out in Annex 2 except where termination is due to a Force Majeure event or UCL's material breach. If terminated due to material breach by UCL then XXX shall pay UCL all sums legitimately expended or committed prior to the notification of termination, however, it shall have no other liability under Annex 2. UCL shall return XXX any advance payments which UCL is no longer entitled to under this clause.
- 9.4 UCL and YYY agree to notify XXX promptly if at any time the respective UCL Supervisor and/or YYY Supervisor is unable or unwilling to continue the supervision of the Project. Within sixty (60) days after such incapacity or expression of unwillingness UCL and/or YYY shall nominate a successor to the UCL and/or YYY Supervisor. Should the successor not be reasonably acceptable to XXX, XXX may terminate this Agreement by giving ninety (90) days' notice. Nevertheless, XXX will continue to reimburse the Student in accordance with the Annex 2.
- 9.5 Clauses 4 to 8 inclusive, 10 and 12 shall survive termination, for whatever reason, of this Agreement without limit in time unless otherwise stated therein.

10. LIMITATION OF LIABILITY

- 10.1 UCL makes no representation or warranty that advice or information given by the UCL Supervisor or any other of UCL's employees, students or agents, or the content or use of any materials, works or information provided in connection with the Project, will not constitute or result in infringement of third-party rights.
- 10.2 UCL accepts no responsibility for any use which may be made of any work carried out under or pursuant to this Agreement or of the Results, nor for any reliance which may be placed on the Results, nor for advice or information given in connection with them.
- 10.3 YYY makes no representation or warranty that advice or information given by the YYY Supervisor or any other of YYY's employees, students or agents, or the content or use of any materials, works or information provided in connection with the Project, will not constitute or result in infringement of third-party rights.
- 10.4 XXX makes no representation or warranty that advice or information given by the XXX Supervisor or any other of XXX's employees, students or agents, or the content or use of any materials, works or information provided in connection with the Project, will not constitute or result in infringement of third-party rights.
- 10.5 YYY accepts no responsibility for any use which may be made of any work carried out under or pursuant to this Agreement or of the Results, nor for any reliance which may be placed on the Results, nor for advice or information given in connection with them.
- 10.6 XXX accepts no responsibility for any use which may be made of any work carried out under or pursuant to this Agreement or of the Results, nor for any reliance which may be placed on the Results, nor for advice or information given in connection with them.

- 10.7 No Party will make any claim in connection with this Agreement or its subject matter against any employee, student or agent of any other Party (apart from claims based on fraud or wilful misconduct). This undertaking is intended to give protection to individuals: it does not prejudice any right which a Party might have to claim against any other Party.
- 10.8 Except in the case of a breach of Clause 5, the liability of any Party arising in any other way out of the subject matter of this Agreement will not extend to loss of business or profit, or to any indirect or consequential damages or losses.
- 10.9 The maximum aggregate liability of each Party to one another under or otherwise in connection with this Agreement shall not exceed the combined value of the payments due to UCL plus the value of the in-kind contributions due to UCL. Nothing in this Clause 10 shall be deemed to exclude or limit in any way any Party's liability for fraud or statutory liability in respect of death or personal injury caused to any person as a result of that Party's negligence.

11. NOTICES

- 11.1 UCL's representatives for the purpose of receiving notices shall until further notice be:

The UCL Supervisor

For Legal notices only:

Head of Research Contracts

Research Services

Gower Street

London, WC1E 6BT

Tel: +44 (0)207 679 2000 (Switchboard)

with a copy to:

The Departmental Administrator

(Address as above)

- 11.2 **XXX** representative for the purpose of receiving invoices, reports and other notices shall until further notice be:

The XXX Supervisor

xxx

- 11.3 **The YYY** representative for the purpose of receiving invoices, reports and other notices shall until further notice be:

The YYY Supervisor

yyy

12. GENERAL

- 12.1 Each party warrants that it has the full right, power and authority to enter into this Agreement.
- 12.2 No Party shall be liable for delay in performing or for failure to perform obligations hereunder if the delay or failure results from any cause or circumstance whatsoever beyond its reasonable control, including any breach or non-performance of this Agreement by the other Party ("Force Majeure"), provided the same arises without the fault or negligence of such Party. If Force Majeure occurs, the date(s) for performance of the obligation affected shall be postponed for as long as is made necessary by the Force Majeure, provided that if any Force Majeure continues for a period of nine (9) months or more, UCL, YYY and XXX shall have the right to terminate this Agreement forthwith by written notice. The Parties shall use their reasonable endeavours to minimise the effects of non-compliance due to any Force Majeure.
- 12.2 Nothing in this Agreement shall create, imply or evidence any partnership or joint venture between UCL or the Student YYY or XXX or the relationship between them of principal and agent or employers and employee.

- 12.3 No Party shall use the name, crest, logo or registered image of the other or the other's Affiliates in a press release or promotional materials, without the prior written consent of the other; provided, however, that publication of the sums received from XXX in UCL's annual report and similar publications shall not be regarded as breach of this clause.
- 12.4 Each Party agrees to execute, acknowledge and deliver such further instruments, and do all further similar acts, as may be necessary, reasonable or appropriate to carry out the purposes and intent of this Agreement.
- 12.5 The Parties shall obtain prior written approval from any other Party prior to using any other Party's logo(s), trademarks, tradenames or any images, videos or other.
- 12.6 Except as expressly provided in this Agreement, nothing in this Agreement shall confer or purport to confer on a third party any benefit or any right to enforce any term of this Agreement.
- 12.7 This Agreement may be executed in two or more counterparts, each of which together shall be deemed an original, but all of which together shall constitute one and the same instrument. In the event that any signature is delivered by facsimile transmission or by e-mail delivery of a ".pdf" format data file, such signature shall create a valid and binding obligation of the party executing (or on whose behalf such signature is executed) with the same force and effect as if such facsimile or ".pdf" signature page were an original thereof. Each party shall retain all its records relating to this Agreement for a period of three years following expiration or termination of the Agreement, or following resolution of a dispute under this Agreement, whichever occurs later.
- 12.8 This Agreement constitutes the entire agreement between the Parties for the Project. Any variation shall be in writing and signed by authorised signatories of the Parties. No waiver or modification of any of the terms of this Agreement will be valid unless in writing. No waiver by either party of a breach hereof or default hereunder will be deemed a waiver by such party of any subsequent breach or default.
- 12.9 This Agreement shall be governed by the law of England & Wales. The English Courts shall have exclusive jurisdiction to deal with any dispute which may arise out of or in connection with this Agreement.
- 12.10 No party hereto may assign this Agreement without the written consent of the other parties, such consent not to be unreasonably withheld.
- 12.11 If any one or more clauses or sub-clauses of this Agreement would result in this Agreement being prohibited pursuant to any applicable law then it or they shall be deemed to be omitted. The Parties shall uphold the remainder of this Agreement, and shall negotiate an amendment which, as far as legally feasible, maintains the economic balance between the Parties.

Signed by the duly authorised representatives of XXX, YYY and UCL, and by the UCL Supervisor and the Student to the extent stated below:

**For and on behalf of
University College London**

Signature: _____

Name: _____

Appointment: _____

Date: _____

**For and on behalf of
XXX**

Signature: _____

Name: _____

Appointment: _____

Date: _____

**For and on behalf of
YYY**

Signature: _____

Name: _____

Appointment: _____

Date: _____

By the UCL SUPERVISOR & STUDENT

I acknowledge that I have read and understood the terms and conditions of this Agreement and I also agree to use all reasonable endeavours to enable UCL to comply with its obligations under this Agreement.

THE STUDENT

Signature: _____

Name: _____

Date: _____

THE UCL SUPERVISOR

Signature: _____

Name: _____

Date: _____

ANNEX 1

Project Title: Extracting epidemiological data from collections

Description of the Project:

The SEAHA scholarship project will look at:

TOPIC

ANNEX 2 (FUNDING)

XXX

(insert company number)

whose address for invoicing is:

<INSERT>

VAT number: <insert>

University College London

whose address for invoicing is:

Research Services

Gower Street,

London WC1E 6BT

United Kingdom

VAT number: GB 524 3711 68

Start date: <INSERT>

Duration: 4 years

UCL reference: <INSERT>

XXX reference: <insert>

Invoicing Contact Details:

XXX:

Name : <INSERT>

Telephone : <insert>

Fax : <insert>

E-mail : <insert>

UCL:

Name : Mark Hopwood

Telephone : +44 (0) 207 679 1770

Fax : +44 (0) 207 813 2849

E-mail : fin-post-awrd-

admin@ucl.ac.uk

Funding Details

The Student will be co-funded by the EPSRC and XXX.

A fixed sum (exclusive of VAT) will be paid by XXX annually in advance to support the Studentship, as follows:

YEAR	PERIOD	AMOUNT
1	1 st October 2015 – 30 th September 2016	£10,000
2	1 st October 2016 – 30 th September 2017	£10,000
3	1 st October 2017 – 30 th September 2018	£10,000
4	1 st October 2018 – 30 th September 2019	£10,000
TOTAL		40,000

All invoices should be sent to the representative detailed above on or before commencement of each of the periods in the table above. VAT will be paid only on receipt of an appropriate invoice.

XXX will make payments by BACs within 30 days of receipt of a valid invoice from UCL.

UCL Bank Details:

Name of Bank : Barclays Bank
Sortcode : 20-10-53
Address : 6-17 Tottenham Court Road, London W1T 1AZ
Account Name : University College London
Account No. : 40178691
IBAN : GB87BARC20105340178691
Swift Code : BARCGB22

ANNEX 3

SEAHA Student Handbook 2014/15

Modulo richiesta da sottoporre all'approvazione del Consiglio di Dipartimento

RICHIESTA CONFERIMENTO BORSE DI STUDIO

Il sottoscritto Prof. SILVIA LICOCCIA

chiede

l'attivazione di n. 1 borsa/e di studio finalizzata/e al proseguimento e al completamento della formazione post-laurea sul tema: ANALISI E OTTIMIZZAZIONE DI FEEDSTOCK ORGANICI PER SISTEMI MEC E MFC

da svolgersi presso il Dipartimento DI SCIENZE E TECNOLOGIE CHIMICHE

☐ X per titoli

☐ è richiesta la conoscenza della lingua straniera INGLESE

Durata: 12 mesi

Fondi su cui dovrà gravare il relativo onere: MECH2, CUP: F81C10000170008

Totale spesa: Euro 19.300,00

Requisiti di ammissione alla selezione (*):

Diploma di Laurea vecchio ordinamento in: Scienze e Tecnologie Alimentari

ovvero laurea Specialistica o Magistrale in: Scienze e Tecnologie Agro-Alimentari (S) Scienze e Tecnologie Alimentari (M)

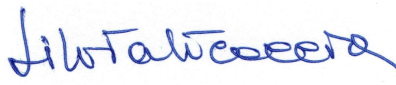
Curriculum formativo, scientifico e professionale adeguato allo svolgimento dello specifico programma oggetto della borsa (**)

Esperienza con le tematiche di gestione delle produzioni alimentari e della valorizzazione delle sottoproduzioni e degli scarti organici adatti ad essere utilizzati come feedstock per le celle a combustibile microbiche (e.g. scarti lattiero-caseari, sansa, etc.). Comprovata esperienza sistemi di gestione della qualità nel settore alimentare (e.g. HACCP, ISO 22000, etc.) e dei protocolli di analisi di laboratorio per analisi chimiche delle acque (e.g. nitrati, nitriti, azoto, ammoniacale) e microbiologiche (e.g. escherichia coli, enterococchi, pseudomonas, etc.). Competenze specifiche in tali ambiti rappresentano titolo preferenziale. La posizione include attività legata a uso di modelli statistici e gestionali di sistemi/filiere alimentari, utili a delineare scenari economici e valutare potenziali aree di trasferimento tecnologico in ambito waste-management.

Si fa presente che la richiesta di attivazione della borsa di studio in questione sarà portata a ratifica nel prossimo Consiglio Scientifico del Centro NAST.

Roma, lì 18/01/2016

IL RESPONSABILE SCIENTIFICO



IL CORDINATORE DEL CENTRO NAST



(*) La laurea conseguita con il vecchio ordinamento, la laurea magistrale e la laurea specialistica vanno sempre indicate. La laurea triennale può invece non necessariamente essere indicata.

(**) Potranno essere richieste delle competenze e/o esperienze professionali specifiche

Paola Cozza

1977 Diploma di Maturità Classica.

1983 Laurea in Medicina e Chirurgia presso l'Università degli Studi di Roma "La Sapienza" con lode.

1986 Diploma di Specializzazione in Odontostomatologia presso la II Scuola di Specializzazione dell'Università degli Studi di Roma "La Sapienza" diretta dal Prof. L. Capozzi, con lode.

1988 The Tweed Course differential diagnosis directional force systems edgewise mechanotherapy – The C.Tweed foundation for orthodontic research – Tucson Arizona.

1991 Diploma di Specializzazione in Ortognatodonzia presso l'Università degli Studi di Napoli II diretta dal Prof. R. Martina, con lode.

1992 "Corso biennale post-universitario di formazione professionale di "Ortognatodonzia" 1990/91 – 1991/92 Scuola Medica Ospedaliera di Roma e della Regione Lazio Direttori: F. Gaudiello, P. Gargiulo giudizio finale con lode.

1993 Diploma conseguito presso il centro Europeo di Ortodonzia tenuto dal Prof. A. J. Cervera Madrid 10 Marzo 1993.

1996 Corso Teorico-Pratico di 2° grado sulla Tecnica di dimensionale tenuto dal Prof. A. Gianelly. Jolly Novembre 1996.

1986/87/88/89 Professore a Contratto della Cattedra di Pedodonzia del Corso di Laurea in Odontoiatria e Protesi Dentaria dell'Università degli Studi di Roma "La Sapienza", diretta dal Prof. G. Dolci.

1991 Presta servizio a decorrere dal 9/01/1991 con il Profilo Professionale di Collaboratore Tecnico VII livello q.f. presso la Cattedra di Ortognatodonzia della Facoltà di Medicina e Chirurgia dell'Università di Roma "Tor Vergata", con concorso bandito con D.R. n°5221 del 30/06/1989, con rapporto di lavoro a tempo indeterminato.

1991/99 Affidamento del Corso di Ortognatodonzia del CLOPD dell'Università degli Studi di Roma "Tor Vergata".

1999/00 Affidamento del Corso di Ortognatodonzia del Corso D.U. di Igienista Dentale dell'Università degli Studi di Roma "Tor Vergata".

2001 Chiamata dalla Facoltà di Medicina e Chirurgia dell'Università degli Studi di Roma "Tor Vergata" a ricoprire il ruolo di Professore di II fascia, settore disciplinare F13B Malattie Odontostomatologiche, a decorrenza dal Marzo 2001.

2001 Nominata con decreto MURST del 13/04/2001 membro effettivo della commissione giudicatrice esami di stato per l'abilitazione alla professione odontoiatra.

2001 Incarico ai fini assistenziali presso l'Area Funzionale Aggregata di Odontoiatria, Responsabile del Settore Specialistico di attività di Ortognatodonzia, come da provvedimento del Direttore generale dell'Azienda Ospedaliera Universitaria Policlinico Tor Vergata ai sensi dell'art. 5 del D.Lgs 517/99 dal 22/01/2001.

2004 Professore Ordinario presso la Facoltà di Medicina e Chirurgia dell'Università degli Studi di Roma "Tor Vergata" per il settore scientifico disciplinare MED/28 MALATTIE ODONTOSTOMATOLOGICHE a decorrere dal 1° ottobre 2004 con Decreto Rettorale n. 2763 del 30-09-2004.

2005 Direttore della Scuola di Specializzazione in Ortognatodonzia dell'Università degli Studi di Roma "Tor Vergata".

2009 Titolare del Programma Aziendale di Ortognatodonzia dell'Azienda Ospedaliera Universitaria Policlinico Tor Vergata.

2010 Presidente del Corso di Laurea Magistrale in Odontoiatria e Protesi Dentaria dell'Università degli Studi di Roma Tor Vergata per gli AA 2010-2015.

2013 **Presidente eletto SIDO (Società Italiana di Ortodonzia) per l'anno 2017.**

2014 Componente della Commissione Cultura e Aggiornamento Odontoiatrico" dell'Albo Odontoiatri Dell'ordine Provinciale Di Roma Dei Medici-Chirurghi E Degli Odontoiatri (2014-2017).

2014 Direzione U.O.C. Odontoiatria e Stomatologia – Malattie Odontostomatologiche fondazione PTV – ex art.18 comma 8 del CCNL Dirigenza Medica dell'8-6-2000.

Autore di numerose pubblicazioni di interesse Nazionale e Internazionale

CURRICULUM VITAE
(sintetico)
Prof. Paola Maria Anna Paniccia
(update 12 gennaio 2016)

INFORMAZIONI PERSONALI

Posizione attuale	Professore Ordinario di Economia e Gestione delle Imprese (settore scientifico disciplinare SECS-P/08)
Sede di lavoro	Università di Roma Tor Vergata - Dipartimento di Management e Diritto Via Columbia n. 2 00133 Roma
Recapiti	Stanza: No. 57, 1° piano, Edificio B Telefono: 0672595818 Mobile: 3391664969 Fax: 0672595804 E-mail: paniccia@economia.uniroma2.it
Nazionalità	Italiana
Stato Civile	Coniugata
Data di nascita	11/10/1960
Codice Fiscale	PNCPMR60R51I838S

AREE DI INTERESSE E DI RICERCA:

- Approccio sistemico-evoluzionista alla teoria dell'impresa;
- Knowledge management, Time management, Creatività e gestione dell'innovazione;
- Management delle attività turistiche e culturali e delle destinazioni turistiche.
- Imprenditorialità e Responsabilità sociale delle imprese;

PROFILO

Paola Paniccia è Professore Ordinario di Economia e Gestione delle Imprese (settore scientifico disciplinare SECS-P/08) nell'Università di Roma Tor Vergata, presso cui insegna, attualmente, *Economia e Gestione delle Imprese* (Laurea Triennale in Economia e Management), *Knowledge Management, Economia e Gestione delle attività Turistiche e Culturali* e *Management delle imprese creative* (Laurea Magistrale in Economia e Management). In questa Università ha, inoltre, insegnato *Organizzazione aziendale* (dall'a.a.2004-2005 all'a.a. 2005-2006) e *Economia e gestione delle attività culturali e turistiche* (dall'a.a.2011-2012 all'a.a. 2012-2013) nei Corsi di Laurea Triennale. In precedenza ha insegnato nelle Università di Cassino e Firenze.

Inoltre:

- svolge attività di docenza sui temi del Management in svariati Master universitari e Dottorati di ricerca, nonché attività di ricerca e di formazione per diverse Istituzioni, pubbliche e private (Regione Lazio, Roma Capitale, Provincia di Frosinone, Unindustria, Camere di Commercio, Associazione Manageritalia Roma, Federalberghi, Istituto Commercio Estero, Istituto Superiore Polizia di Stato). Dal 2013 è Membro del Comitato Scientifico ECCE ITALIA (Consorzio delle Eccellenze d'Italia);
- ha conseguito l'abilitazione all'esercizio della professione di dottore commercialista presso l'Università degli Studi di Roma La Sapienza nell'anno 1984 e ha esercitato la professione dal 1984 al 1990. Dal 2 agosto 1990 è iscritta all'elenco speciale dei non esercenti la professione;

- dal 2004 è Socio Ordinario dell'Accademia Italiana di Economia Aziendale (AIDEA) e membro della Società Italiana di Management (SIMA).
- è membro del Comitato Scientifico e Reviewer delle seguenti riviste: *Impresa Progetto-Electronic Journal of Management*; *Economia e Diritto del Terziario*; *Il capitale culturale. Studies on the Value of Cultural Heritage* ó Università di Macerata, Dipartimento di beni culturali; *Sinergie Italian Journal of Management*; *The European Journal of Tourism Research*; *Essay on Management, Economics and Ethics*, McGraw-Hill, Italia; Firenze University Press - FUP.
- partecipa a network di ricerca internazionali sui temi del Knowledge management e del Tourism management, in particolare: European Academy of Management (EURAM), European Academy of Management and Business Economics (AEDEM), European Academy of Bozen (EURAC), International Association of Scientific Experts in Tourism (AIEST). È stata Guest Editor per il XXV Convegno annuale di *Sinergie* (novembre 2014). Inoltre, svolge ricerche e attività formative sui temi del turismo in collaborazione con i colleghi dell'Universität di Eichstaett-Ingolstadt.

Nell'Università di Roma Tor Vergata è stata Coordinatore del Corso di Studio in Economia e Management (CLEM), Laurea Triennale e Laurea Specialistica ó Macroarea di Economia - (dall'a.a. 2012-2013 all'a.a. 2014-15). Attualmente è membro del Consiglio di Corso di Studio CLEM biennale.

Nella medesima Università è Coordinatore del Master di I Livello in Economia e Management delle Attività turistiche e culturali (MEMATIC) (dall'a.a. 2007-2008); del Corso di Perfezionamento in Dottrina sociale della Chiesa per lo sviluppo economico e sociale (dall'a.a. 2015-16). Inoltre, è vice Coordinatore del Master di I Livello in Economia e Gestione Immobiliare (MEGIM) (dall'a.a. 2006-2007) ed è stata Direttore del Master di II Livello in Progettazione di Programmi Comunitari e di Cooperazione Internazionale ó Scuola IAD (dall'a.a. 2008-2009 all'a.a. 2010-2011).

È stata componente della Giunta della Struttura di Raccordo della Macroarea di Economia dell'Università di Roma Tor Vergata e componente della Giunta del Dipartimento IGF. È inoltre, dal 2013 membro del Laboratorio sull'Impresa Sostenibile e Responsabile (Covision), afferente al Dipartimento di Management e Diritto.

Inoltre:

- è membro della Commissione di Ateneo per la Valorizzazione dei Risultati della Ricerca e per il Trasferimento Tecnologico (CVRTT) - Brevetti e Spin off (DDRR n.443 1/02/2013 e n.744 del 19/03/2012);
- dal 2014 è membro del Centro interdipartimentale per le TeleInfrastrutture (CTIF);
- è stata rappresentata dell'Università di Roma Tor Vergata nel CdA dell'Associazione Incubatori Universitari (AIU) (nominata con Decreto Rettorale del 18/05/2007);
- è stata componente del Comitato Direttivo dell'Università di Roma Tor Vergata, per il Progetto IUnet (anni 2006 e 2007), progetto pilota avente l'obiettivo di valorizzare le conoscenze sull'avviamento di imprese high-tech nelle varie sedi delle Università partner: Politecnico di Milano, Università Federico II, Politecnico di Torino, finanziato dal Ministero delle Attività Produttive ó Direzione per il coordinamento degli incentivi alle imprese (Decreto 2 maggio 2001, GU N.142 del 21-06-2001);
- è stata membro della Commissione Organizzatrice e della Giuria *Start-Cup Roma* 2006-2007 e 2010-2011 e delegata all'organizzazione della *Start Cup Lazio* per il 2014-2015: competizione per la creazione di imprese innovative, nell'ambito del Premio nazionale per l'innovazione promossa da PNcube (Associazione Italiana degli Incubatori Universitari e delle Business Plan Competition Locali).

PRINCIPALI PUBBLICAZIONI

Monografie

Paniccia, P. e Leoni, L. (2015), *Knowledge Management. Approfondimenti e casi di studio*, Roma, TEXmat, (ad uso degli studenti).

Paniccia P., Basciano M. (2014), *Modelli e tecniche di management applicati all'impresa turistica*, Giappichelli, Torino, pp. 1-70.

Paniccia P., Leoni L. (2014), *Knowledge Management. Schemi di sintesi delle lezioni*, I Edizione. Texmat, Roma, pp.1-87 (ad uso degli studenti).

Paniccia P. (2002), *Dinamiche temporali e cognitive nell'approccio sistemico al governo dell'impresa*, Cedam, Padova, vol. 1, pp. 1-200.

Paniccia P. (1999), *Il tempo nel governo dell'impresa. Tempo e conoscenza nell'economia delle imprese*, Giappichelli, Torino, pp. 17-277.

Paniccia P. (1995), *Approvvigionamenti sistemici e performance operative*, Quaderni di Studi di Università degli Studi di Cassino.

Paniccia P. (1989), *Strumenti Conoscitivi per la Pianificazione Strategica Aziendale. I modelli di portafoglio prodotti, di portafoglio tecnologico e di definizione del business*, Giappichelli, Torino, pp. 7-171.

Curatele

Pechlaner H., Paniccia P., Valeri M., Raich F. (a cura di, 2012), *Destination Governance. Teoria ed esperienze*, Giappichelli, Torino, pp. 1-479.

Paniccia P., Silvestrelli P., Valeri M. (a cura di, 2010), *Economia e management delle attività turistiche e culturali. Destinazioni, imprese, esperienze. Contributi di ricerca*, Giappichelli, Torino, pp. 1-310.

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Roma, lì 12 gennaio 2016

Paola Maria Anna Paniccia

C.V. dr. Giuseppe Sancesario

Dr. Sancesario was born in Presicce (LE) Italy, on 17/08/1947, graduated in Medicine in 1976 at the University of Rome "La Sapienza", Italy; he became certified neurologist in 1980 and certified pathologist in 1992.

He was post-doctoral fellow in the Department of Neuromorphology, Max-Planck-Institut für psychiatry, Munich, Germany, from 1985 to 1986. He became a tenured researcher in 1984, and associate professor of Clinical Neurology at the Tor Vergata University of Rome in 1998. He was visiting professor in the Department of Anatomy and Neurobiology, the University of Tennessee, Memphis in 1993, 1995 e 1997.

Since 1990 he is head of the Laboratory of Experimental Neuropathology in the Department of Neuroscience at the Tor Vergata University of Rome. Since 2006 he is the director of the Centro Regionale Alzheimer at the Tor Vergata General Hospital.

He was president of the Italian Association of Neuropathology in years 2007-2009, and director of the School of Neurology, University of Rome Tor Vergata in years 2004-2009.

Dr. Sancesario is a neurologist with an expertise in experimental neuropathology. Dr. Sancesario's studies have dealt with the mechanisms of ischemic brain damage and with the efficacy of various drugs in improving the vulnerability of neurons to ischemia, using different models of ischemia in rodents and evaluating morphologically the severity of the brain damage with light and electron microscope.

Another major field of interest of dr. Sancesario has regarded the neuropathology of basal ganglia in models of extrapyramidal disorders. He has studied the plasticity of striatal and pallidal neurons in manganese-treated or 6-OHDA-lesioned rodents. He and co-workers first identified a complex dys-regulation of the second messenger system in the basal ganglia after lesion of the substantia nigra. These results provide a better knowledge of the pathogenesis of parkinsonism and levodopa induced dyskinesia, opening the way to new therapeutic approaches.

His main clinical interest has been directed to diagnosis and treatment of Alzheimer's disease and other dementia. In particular he oriented his research in studying the neuroanatomical correlates of the neurodegenerative processes using multimodal MRI and in searching CSF biomarkers of the disease processes. The specific scientific activity of dr. Sancesario in the field of dementia is documented by 40 papers on international journals with referees. ***h-index (37) Citations (3745).***