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| **Marie Skłodowska-Curie European Fellowship****Expression of Interest Application Form 2018** |

This form must be completed for Expressions of Interest (EoIs) to the Marie Skłodowska-Curie European Fellowship scheme being run by the University of Birmingham.

The document length (excluding CV) should be no more than two pages of A4, single spacing and completed in English (a 200 word count is set for the primary research topic). The document, together with a full CV should be emailed to Sally Wiley (s.a.wiley@bham.ac.uk) by 17:00 (UK time) on **20 April 2018.**

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| APPLICANT INFORMATION |
| **Name of Applicant** | Insert name |
| **Email address** | Insert Email Address |
| **Current Position & Institution** | Insert |

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| ELIGIBILITY |
| **PhD year and month** | Insert |
| **Have you lived, worked or studied in the UK for more than 12 months in the last three years** | List residance in las 3 years |

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| RESEARCH THEMES APPLYING TOYou may choose up to 3 different research themes (Option 1 should be your first choice)*See list below* |
|  | Option 1 | Option2 | Option 3 |
| **Arts & Humanities** | Insert reference number | Insert reference number | Insert reference number |
| **Engineering & Physical Sciences** | Insert reference number | Insert reference number | Insert reference number |
| **Economic & Social Sciences** | Insert reference number | Insert reference number | Insert reference number |
| **Life & Environmental Sciences** | Insert reference number | Insert reference number | Insert reference number |
| **Medical & Dental Sciences** | Insert reference number | Insert reference number | Insert reference number |

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| PROPOSED RESEARCH |
| **Please give the title and brief outline and nature of your proposed research including its aims how it would impact on your future research career (max 200 words).**Title and research outline - 250 word limit |
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| Where did you hear about this opportunity |
| **Email** |       |
| **Social Media** |       |
| **Nature** |       |
| **Science** |       |

**Research Themes and Reference Numbers**

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| **Arts & Humanities** |
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| CAL01 | Making Sense of Europe's Industrial Heritage |
| CAL02 | Electronic Music Studies |
| CAL03 | The legacies of colonialism and the role of law and lawyers in governance |
| CAL04.1 | Religion, global politics and international relations |
| CAL04.2 | Religion and humanitarian intervention |
| CAL05 | Trans-European trade and technology transfer in the 2nd Millennium BC |
| CAL06 | Studying literary texts in the digital age - corpus methods and computer-assisted techniques for the study of 19th century novels and children’s literature. |

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| **Engineering & Physical Sciences** |
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| EPS01 | Soft Matter at Interface |
| EPS02.1 | New Li/Na ion battery materials |
| EPS02.2 | New Solid Oxide Fuel Cell Materials |
| EPS03.1 | Terahertz surface scattering (experimentally-driven) |
| EPS03.2 | Terahertz imaging (theoretical- or experimentally-driven) |
| EPS04 | Enhancing the sustainability and resilience of existing and new concrete structures |
| EPS05.1 | Advanced Robotics |
| EPS05.2 | Collaborative Robotics |
| EPS05.3 | Robotic Disassembly |
| EPS06.1 | Quantum Degenerate Gases |
| EPS06.2 | Quantum and Quantum Enabled Sensing |
| EPS07.1 | Mechanical Engineering: Air bearings, rotor dynamics, microgas turbine engine, or turbochargers. |
| EPS07.2 | Materials: Pressureless sintering complex shaped silicon nitride microcomponents. |
| EPS08.1 | Railway Infrastructure Resilience and Safety. |
| EPS08.2 | Structural monitoring and maintenance |
| EPS08.3 | Transportation and transit systems |
| EPS09 | Machine learning and graph computing for discovering biological mechanisms of cancer |
| EPS10 | Nanoplasmonics |
| EPS10.1 | Digital Railway Technology |
| EPS10.2 | Future Public Transportation Systems |
| EPS11 | High-throughput computational modelling of next-generation battery materials |
| EPS12 | Fellowship on the Design of Radiation-Hard CMOS Sensors for Determining Absorbed Dose in Hadron Radiotherapy |
| EPS 13 | Railway Electrification in the era of Smart Grids |
| EPS14 | Responsible AI - embedding human values into the heart and operation of AI. |
| EPS15.1 | Dynamic, functional bio-interface materials |
| EPS15.1 | Materials with anti-fouling properties |
| EPS15.1 | Glycan recognition and sensing |
| EPS15.1 | Vesicle engineering |
| EPS15.1 | Mechanical metamaterials |
| EPS16.1 | Organocatalytic and asymmetric C-H oxidation |
| EPS16.2 | Isosteric, isoelectronic and chiral mimetics of cysteine disulfides |

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| **Social Sciences** |
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| CoSS01 | Community land trusts |
| CoSS02.1 | The Impact of Migration on Distributional Preferences |
| CoSS02.2 | The Effects of Conflict and War on Risk and Social Behaviour |
| CoSS03 | Welfare regimes in social policy |
| CoSS04 | Learning, Brains and Classrooms - towards a new understanding of learning |
| CoSS05 | Empirical analysis of development processes and outcomes in post-civil war states |
| CoSS06 | Political Campaigning |
| CoSS07 | Self-determination and Secession |

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| **Medical & Dental Sciences** |
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| MDS01 | Endocrine Biochemistry: Regulation of steroid hormone action and nucleotide signalling |
| MDS02.1 | Imaging approaches in liver cancer and hepatic regeneration  |
| MDS02.2 | The role of B cells in liver inflammation |
| MDS03 | Chronic post-thoracotomy pain; roles of patients and public involvement in recruitment of clinical trials |
| MDS04 | The Development of Implantable Devices for the localised Treatment of Pancreatic Cancer |
| MDS05 | Roles of ubiquitin-like modifiers in regulation of DNA replication |
| MDS06.1 | Improving neurodevelopmental outcomes after cardiac arrest in children; developing a European collaborative’  |
| MDS06.2 | Cardiac arrest and resuscitation research in children |
| MDS07 | Machine Learning for promoting Health and Wellbeing |
| MDS08.1 | Dental Materials Science and Related Technologies |
| MDS08.2 | Biomedical Engineering |
| MDS09.1 | Risk-taking behaviour in adolescence and young adulthood |
| MDS09.2 | Social cognition (empathy) |

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| **Life and Environmental Sciences** |
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| LES01 | Phosphatases and the regulation of metabolism |
| LES02 | Neurodevelopmental disorders: developing knowledge and psychological interventions |
| LES03 | Physical activity and adolescent mental health |
| LES04 | Hydrology; water in a changing climate |
| LES05 | Effective interventions in Alzheimer’s disease: Investigating the antioxidant content of lipoproteins following exercise intervention |
| LES06 | Mechanisms underpinning self-harm in autism’ |
| LES07 | Urban wellbeing |
| LES08 | Urban and Regional Air Pollution |
| LES09 | Using observations and models to advance understanding of forest demography |
| LES10.1 | Urban air pollution: emissions, processes and impacts |
| LES10.2 | Biogeochemistry of atmospheric nutrients  |
| LES11 | Stress response signalling in regeneration and cancer |

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