**Faculty of Science and Engineering**

**Research projects for advertisement on FindAPhD**

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| **Supervisor Information** |
| **Supervisor(s)** |  |
| **Project Information** |
| **Project title** |  |
| **Application deadline** (or applications accepted all year round) |  |
| **Department and research theme***Indicate which Department and Research Theme (if applicable) this project should be advertised under.* |  |
| **Degree type***(e.g. PhD / EngD etc)* |  |
| **Proposed start date** |  |
| **Duration of funding / project***Delete as appropriate* | 3 years3.5 years4 years |
| **Funding Information** |
| **Funding source***Please indicate whether the project is for self-funded students, if funding has been identified, or if funding is potentially available for this project (e.g. PDS)* |  |
| **Funding notes** *If funded, please give details of funder / who can apply (UK / Rest of EU / Overseas) / if the funding is direct for this project or if this project is in competition with other projects for the funding (eg. PDS).* |  |
| **Project Description***The below sections will be added to the ‘Project Description’ section with relevant subtitles on FindAPhD* |
| **Project description***Include description of project.* |  |
| **Eligibility***This included on all advertised projects* | **Eligibility***Example: Applicants should have, or expect to achieve, at least a 2.1 honours degree or a master’s in a relevant science or engineering related discipline.* |
| **Funding***This funding section will be added to advertised Competition Funded/Self-Funded projects only.* | **Funding**At Manchester we offer a range of scholarships, studentships and awards at university, faculty and department level, to support both UK and overseas postgraduate researchers.For more information, [visit our funding page](https://www.se.manchester.ac.uk/phds-science-engineering/funding/?utm_source=findaphd&utm_medium=referral&utm_campaign=fse-pgr-2022&utm_content=project_funding) or [search our funding database](https://www.se.manchester.ac.uk/phds-science-engineering/#d.en.877483?utm_source=findaphd&utm_medium=referral&utm_campaign=fse-pgr-2022&utm_content=project_fundingdatabase) for specific scholarships, studentships and awards you may be eligible for. |
| **Before you apply***This included on all advertised projects – please amend if required.* | **Before you apply**We strongly recommend that you contact the supervisor(s) for this project before you apply. |
| **How to apply***This included on all advertised projects – please amend if required.* | **How to apply**To be considered for this project you’ll need to [complete a formal application through our online application portal](https://www.se.manchester.ac.uk/phds-science-engineering/#d.en.878434?utm_source=findaphd&utm_medium=referral&utm_campaign=fse-pgr-2022&utm_content=project_howtoapply_apply).When applying, you’ll need to specify **the full name of this project**, **the name of your supervisor**, **how you’re planning on funding your research**, **details of your previous study, and names and contact details of two referees**.Your application will not be processed without all of the required documents submitted at the time of application, and we cannot accept responsibility for late or missed deadlines. Incomplete applications will not be considered. If you have any questions about making an application, please contact our admissions team by emailing FSE.doctoralacademy.admissions@manchester.ac.uk. |
| **EDI statement***This included on all advertised projects.* | **Equality, diversity and inclusion**[Equality, diversity and inclusion](https://www.manchester.ac.uk/connect/jobs/equality-diversity-inclusion/?utm_source=findaphd&utm_medium=referral&utm_campaign=fse-pgr-2022&utm_content=project_edi) is fundamental to the success of The University of Manchester, and is at the heart of all of our activities. We know that diversity strengthens our research community, leading to enhanced research creativity, productivity and quality, and societal and economic impact. We actively encourage applicants from diverse career paths and backgrounds and from all sections of the community, regardless of age, disability, ethnicity, gender, gender expression, sexual orientation and transgender status.We also support applications from those returning from a career break or other roles. We consider offering flexible study arrangements (including part-time: 50%, 60% or 80%, depending on the project/funder). |
| **Application enquiries** |
| **Name** | FSE Doctoral Academy Admissions team |
| **Email** | fse.doctoralacademy.admissions@manchester.ac.uk |
| **Web link***Following URL used unless different URL is requested* | <https://uom.link/pgr-apply>  |
| **Final check** |
| **Please sign to confirm that the advertising copy has been checked for inclusive language.***Advertising copy* ***must be checked for inclusive language*** *by using a free online checker such as* [*Casey*](https://croud.com/en-gb/casey/)*. It is also possible to check inclusive language in later versions of MS Word.* |  |

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| **Please select up to 10 subject areas from the list below to make your advertisement easier for relevant applicants to find.** |  |
| **Biological Sciences** | Genetics |  |
| Bacteriology |  | Genomics |  |
| Behavioural Biology |  | Human Genetics |  |
| Biochemistry |  | Immunology |  |
| Biodiversity |  | Marie Biology |  |
| Bioinformatics |  | Microbiology |  |
| Biophysics |  | Molecular Biology |  |
| Biotechnology |  | Molecular Genetics |  |
| Cancer Biology |  | Neuroscience |  |
| Cell Biology |  | Other |  |
| Developmental Biology |  | Parasitology |  |
| Ecology |  | Plant Biology |  |
| Ectoxicology |  | Plant Cell Biology |  |
| Entomology |  | Reproductive Biology |  |
| Environmental Biology |  | Structural Biology |  |
| Evolution |  | Systematic Biology |  |
| Genetic Engineering |  | Virology |  |
| Zoology |  |  |  |
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| **Chemistry** | Geochemistry |  |
| Applied Chemistry |  | Inorganic Chemistry |  |
| Analytical Chemistry |  | Macromolecular Chemistry |  |
| Biochemistry |  | Polymer Chemistry |  |
| Chemical Engineering |  | Organic Chemistry |  |
| Environmental Chemistry |  | Pharmaceutical Chemistry |  |
| Computational Chemistry |  | Physical Chemistry |  |
| Petrochemical Chemistry |  | Synthetic Chemistry |  |
| Industrial Chemistry |  | Structural Chemistry |  |
| Other |  |  |  |
|  |  |  |  |
| **Earth and Environmental Sciences & Geology** |  |  |
| Climate Science |  | Meteorology |  |
| Hydrology |  | Pollution |  |
| Marine Sciences |  | Other |  |
| Applied Geology |  | Geochemistry |  |
| Geophysics |  | Geoscience |  |
| Geotechnology |  | Hydrogeology |  |
| Marine Geology |  | Palaeontology |  |
| Seismology |  | Volcanology |  |
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| **Mathematics** |  |  |
| Applied Mathematics |  | Mathematical Modelling |  |
| Applied Statistics |  | Operational Research |  |
| Computational Mathematics |  | Other |  |
| Engineering Mathematics |  | Medical Statistics |  |
| Data Analysis |  | Probability |  |
| Pure Mathematics |  | Statistics |  |
| Stochastic Processes |  |  |  |
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| **Computer Science** |  |  |  |
| Computer Architectures |  | Data Science |  |
| Computer Graphics |  | Human Computer Interaction |  |
| Computer Vision |  | Internet of Things |  |
| Cyber Security |  | Machine Learning |  |
| Networks |  | Quantum Computing |  |
| Software Engineering |  | Videogames |  |
| Artificial Intelligence |  | Other |  |
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| **Physics** |  |  |  |
| Acoustics |  | Astronomy |  |
| Astrophysics |  | Chemical Physics |  |
| Computational Physics |  | Elecromagnetism |  |
| Environmental Physics |  | Experimental Physics |  |
| Medical Physics |  | Nuclear Physics |  |
| Optical Physics |  | Particle Physics |  |
| Quantum Mechanics |  | Solid-state Physics |  |
| Space Science |  | Semiconductors |  |
| Theoretical Physics |  |  |  |
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| **Sociology/ Psychology** | Developmental Psychology |  |
| Child Psychology |  | Educational Psychology |  |
| Clinical Psychology |  | Forensic Psychology |  |
| Community Psychology |  | Health Psychology |  |
| Neuropsychology |  | Occupational Psychology |  |
| Organisational Psychology |  | Other psychology |  |
| Psychotherapy |  | Sport Psychology |  |
| Criminology |  | Disability Studies |  |
| Gender studies |  | Social Work |  |
| Socio Economics |  | Other – social work |  |
| **Engineering** |  |  |
| Acoustics Engineering |  | Fluid Mechanics |  |
| Aerospace Engineering |  | Gas Engineering |  |
| Atomic Engineering |  | Geotechnical Engineering |  |
| Automotive Engineering |  | Integrated Engineering |  |
| Bioengineering |  | Manufacturing Engineering |  |
| Biomedical Engineering |  | Marine Engineering |  |
| Chemical Engineering |  | Mechanical Engineering |  |
| Civil Engineering |  | Mechanics |  |
| Communications Engineering |  | Mechatronics |  |
| Control Systems |  | Nanotechnology |  |
| Cybernetics |  | Offshore Engineering |  |
| Dynamics |  | Petroleum Engineering |  |
| Electrical Engineering |  | Robotics |  |
| Energy Technologies |  | Solid Mechanics |  |
| Environmental Engineering |  | Structural Engineering |  |
| Structural Mechanics |  | Systems Engineering |  |
| Thermodynamics |  | Fluid Mechanics |  |
| Integrated Engineering |  | Other |  |
| Gas Engineering |  | Geotechnical Engineering |  |
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| **Business and Management/ Economics** | Education management |  |
| Accounting |  | Event Management |  |
| Business  |  | Hospitality |  |
| Human Resource Management |  | Management |  |
| Marketing |  | Other |  |
| Project Management |  | Sports Management |  |
| Tourism |  | Other Business and Management |  |
| Econometrics |  | Financial Economics |  |
| Macroeconomics |  | Microeconomics |  |
| Other – economics |  | Political Economics |  |
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| **Finance** |  |  |  |
| Actuarial Science |  | Banking |  |
| Financial Management |  | Insurance |  |
| Investment |  | Other |  |
| Taxation |  |  |  |
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| **Food Science** |  |  |  |
| Food Hygiene |  | Food Production |  |
| Other |  |  |  |
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| **Geography** |  |  |  |
| Agricultural Geography |  | Cultural Geography |  |
| Economic Geography |  | Geographical Information Systems Gis |  |
| Historical Geography |  | Human Geography |  |
| Marine Geography |  | Other |  |
| Physical Geography |  | Political Geography |  |
| Remote Sensing |  | Social Geography |  |
| Transport Geography |  | Urban Geography |  |
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| **Information Systems** |  |  |  |
| Information Security |  | Librarianship |  |
| Information Systems |  | Other |  |
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| **Material Science** |  |  |  |
| Ceramics |  | Glass |  |
| Metallurgy |  | Other |  |
| Polymers |  | Textiles |  |
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| **Medicine** |  |  |  |
| Anatomy |  | Audiology |  |
| Biomechanics |  | Cardiology |  |
| Complementary medicine |  | Dentistry |  |
| Endocrinology |  | Epidemiology |  |
| Neural Engineering |  | Neurology |  |
| Nutrition |  | Ophthalmology |  |
| Optometry |  | Other |  |
| Pathology |  | Pharmacology |  |
| Pharmacy |  | Physiology |  |
| Physiotherapy |  | Podiatry |  |
| Radiology |  | Speech Science |  |
| Tissue Engineering |  | Toxicology |  |
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| **Sport and Exercise Science** |  |  |  |
| Sports Coaching |  | Sports Development |  |
| Sport performance |  | Sport technology |  |
| Other |  |  |  |