UNNC – SIAT Doctoral Training Partnership

It's essential that you have contacted the UNNC and SIAT supervisors of the PhD topics (below) before submitting an application.

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| Potential PhD top | oics | | | | | | | | | _ |
| PhD topic | | Additiv | ve manufactu | ring and | its appli | cation in th | ne field o | f medi | cine | |
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| Short introduction & description of PhD p | | | | | | | | | | |

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| PhD topic | Biomaterials by Additive manufacturing |
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| | Mg Mn based 3D |
| | printing biomaterials |
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| PhD topic | Combining Deep Learning and Ontology Researing for Medical Image Computing |
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| | Combining Deep Learning and Ontology Reasoning for Medical Image Semantic |
| | Segmentation |
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| SIAT Supervisor UNNC Supervisor(s) | |

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| description of PhD project | |
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| PhD topic | Computer-Aided Drug Design Based on Machine Learning |
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| UNNC Supervisor(s) | |
| UNNC Supervisor(s) Short introduction & | |

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| PhD topic | Deep learning-based method for phenotype prediction with multi-modal features and interaction detection |
| SIAT Supervisor | |
| UNNC Supervisor(s) | |
| Short introduction & description of PhD project | |
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| PhD topic | Deep Multimodal Representation Learning for Mental Health Diagnosis |
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| SIAT Supervisor | |
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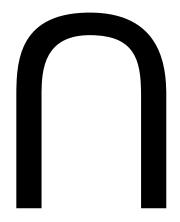
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| PhD topic | Design of high performance low dielectric polymer composites for integrated circuit pc |

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| PhD topic | Developing ultrasensitive diagnostics by combining directed evolution and surface |
| · | plasmon resonance |
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| PhD topic | Development, evaluation, and clinical trials of biomaterials & medical devices |
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Short introduction & description of PhD project

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| Image-guided Radiation Therapy based on Machine Learning |
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| image-guided Radiation Therapy based on Machine Learning |
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| Impact of Expectation Bias on Results of Randomized Clinical Trials |
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| description of PhD project | |
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| PhD topic | Magnetoelectric stimulation assisted metal-organic frameworks engineered |
| | hydrogels in treating bone injury repair |
| SIAT Supervisor | |
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| PhD topic | Medical Image Processing and Artificial Intelligence |
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| PhD topic | Methods for analyzing population level single cell genomics data |
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| PhD topic | Modelling the screen and verification of biomarkers in building the forewarning |
| PhD topic | model for intelligent assistant diagnosis of mental disease including depressive |
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| PhD topic SIAT Supervisor | model for intelligent assistant diagnosis of mental disease including depressive |
| | model for intelligent assistant diagnosis of mental disease including depressive |
| SIAT Supervisor UNNC Supervisor(s) Short introduction & | model for intelligent assistant diagnosis of mental disease including depressive |
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| PhD topic | Multi-agent decision making based on action recognition and intention prediction in |
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| | future "intelligent space" |
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| description of PhD project | |



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| PhD topic | One-step-ahead: Accurate Viral Mutation Prediction for Early Preparedness of Government Policies and Pharmaceuticals |
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| PhD topic | Quantitative optical imaging of physiological dynamics |
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| PhD topic | Robot assisted automatic preparation of functional materials |
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| PhD topic | The Investigation of Wearable Sensor for the Simultaneous Detection of Multiple Pulse Wave Velocities and Its Clinical Application |
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| Short introduction & description of PhD project | |
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| PhD topic | Thermoelectric-based thermal management design for lithium-ion battery |
| SIAT Supervisor | |
| UNNC Supervisor(s) | |
| Short introduction & description of PhD project | |
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| PhD topic | Ultrasound-mediated biofilm expression and application |
| SIAT Supervisor | |
| UNNC Supervisor(s) | |
| Short introduction & description of PhD project | |

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| PhD topic | Understanding altered neural information processing under diseased conditions |
| PhD topic SIAT Supervisor | Understanding altered neural information processing under diseased conditions |
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| PhD topic | Vibration and sound radiation analysis of boomer sound source in deep water |
| SIAT Supervisor | |
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| Short introduction & | |
| description of PhD project | |
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| PhD topic | Wearable RF sensor /biosensor and Artificial intelligence for health management |
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| description of PhD project | |
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| PhD topic | A Novel Dynamic Body Weight Support Overground Walker based on Brain |
| | Computer Interface Powered Body Movement Recognition and Track Enabling Natural Gait training |
| SIAT Supervisor | |

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| PhD topic | A synthetic biology approach using engineered bacteria to mitigate environmental |
| PhD topic | A synthetic biology approach using engineered bacteria to mitigate environmental pollution |
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| PhD topic | Advanced energy storage materials and devices |
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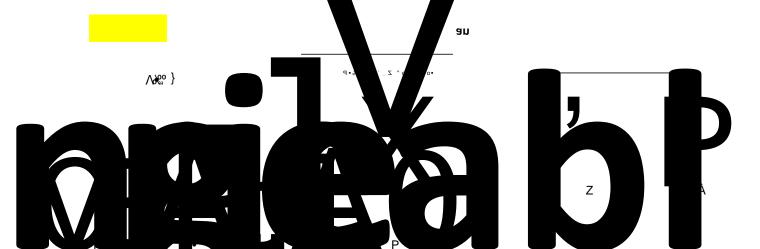
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Short introduction & description of PhD project

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| description | of PhD | project |
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| PhD topic | Combinatorial Optimization for Bioinformatics Problems using Graph Neural Networks |
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| Short introduction | |

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Short introduction & description of PhD project

| PhD topic | High adaptability and reliability of wearable device systems in Internet of medical Things dealing with the extremes of changing physical conditions and environment in special applide (2012) 点 占! |
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| SIAT Supervisor | |
| UNNC Supervisor(s) | |

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PhD topic

Metallic matrix composite materials in advanced electronic ol s



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| PhD topic | Optimal design methods of electric devices based on artificial intelligence |
| SIAT Supervisor | |
| UNNC Supervisor(s) | |
| Short introduction & description of PhD project | |
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| Bing sPhD topic | Video based online abnormal object recognition in grid scene |
| SIAT Supervisor | |
| UNNC Supervisor(s) | |
| Short introduction & description of PhD project | |

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