

附件2

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Project Title
A computational pathology framework for rapid diagnostics and mobile healthcare in resource-poor settings
A search for clues to onset of Asian desertification and Tibetan Plateau uplift
Additive manufacturing with continuous fiber reinforcement for Fused Deposition Modelling process
Analysis of ultrasound backscattered signals in cancellous bones
Analyzing walking gate through Kinect
Augmented Reality for Assisting Surgeons in Robotic Needle-based Surgeries
Beneficial management practices (BMPs) to enhance carbon sequestration and reduce greenhouse gas emissions from agroforestry systems
Between people haptic/Kinesthetic Feedback System
Building Information Models Based Building Energy Management
Building online games for computational
Canadian Minority Media Database
Carbon sequestration in boreal soils
Carbonaceous nanoparticles synthesis from biomass
Characterizing protein-protein interactions
Chinese Economy
Chiral spectroscopy of small chiral drug candidates
Composite materials made from waste or recycled materials and bio based resins
Computer Modeling of Pipeline welding

Copper-Catalyzed Oxidative Carbon-Carbon Bond Forming Reactions
Creative design of mechanical system (e.g. 3D printing machine) using Legos
Cross-kingdom approaches for studying bacterial pathogenesis
Deep Learning Analysis of 3D Ultrasound Images
Deep Learning for 3D ultrasound data segmentation
Design for additive manufacturing: Comparison of design tools
Design of fluophores for biological imaging
Design of reconfigurable hybrid machine components (for 3D Printing & CNC machining)
Designing of a smart augmented reality platform for skills training
Developing a vaccine against malaria in pregnancy
Developing Software for Variable Adaptive Infills for 3D printing applications
Development and application of analytical mass spectrometry for metabolomics research
Development of Catalyst-Containing Metal-Organic Frameworks
Development of wearable technologies for outcome evaluation of clinical treatments and daily activity monitoring
Directional Quincunx Tight Wavelet Frames and Image Processing
Dusty Skies and Dirty Cities: Light-Induced Chemistry at the Surface of Atmospheric Dust
Ecological stoichiometry modeling
Effect of Time of Day on Blood Glucose Responses to Aerobic Exercise in Type 1 Diabetes

Experimental and Theoretical Investigation on the Structural and Hygrothermal Performance of Exterior Walls
Exploration of fluid flow, heat transfer, and electromagnetic phenomena in molten metal in welding
Exploring changing cycling patterns in the City of Edmonton and development of its continuous performance monitoring
Feedback controller for plasma transfer arc additive manufacturing
Functional pharmacogenomic characterization of chemotherapy adverse drug reactions
Geometric Optimization of 3D Printed Assemblies
Geotechnical Centrifuge Modeling of Helical Pile Foundation
Greenhouse gas fluxes in croplands, grasslands, and/or forest ecosystems
High intensity LED treatment of low-moisture foods
High Latitude Ocean Studies
High speed imaging of droplet impact dynamics
Identification and assessment of factors impacting air traffic operations at airports and airstrips in Northern Canada
Image segmentation and registration in oral health
Improving Performance in Heterogeneous High-Performance Computing Systems
In-package cold plasma treatment of meat products
Influence of materials and process variables on geometric and mechanical properties in material jetting process
Influence of water properties on the microbial inactivation during processing of low-moisture foods

Injection Molding of Renewable Polymers
Innovative masonry slender walls
Intelligent Computer Guided Surgery
Inverse method in determining the transmission rate of an infectious disease
Lifetime prediction of plastic gas pipe
Machine learning and data mining applications in process systems engineering
Metal-Air Batteries
Metamaterials for Improving Magnetic Resonance Imaging
Microfluidics for bio-applications
Microfluidics to study two phase flow mixing in porous media
Modeling and optimization of the CO ₂ transportation pipeline design in Alberta
Modeling of laser cladding for composite materials
Modelling membrane proteins
Neurobiology and treatment of depression
Neuroprotective agents in cerebral malaria
Novel wearable technologies for sportive performance assessment
Numerical simulation of geothermal
Numerical Simulations of Astrophysical Transients
Obtaining reliable paleomagnetic poles for plate tectonic reconstructions of China in Paleozoic
Performance monitoring and assessment for photovoltaic systems in cold regions
Physics of Thermal Plasmas at Atmospheric Pressure
Power Flow and Fault Studies of a Fully Modular DC-DC Converter for Multi-Terminal DC Networks

Synthesis of chemically modified peptides for the validation of an accelerated ligand discovery platform
Quality Assurance of Additive Manufacturing Parts
Reduced gravity and foam analysis
Reliability assessment of structures with deterioration
Reproducible research in Chemical Engineering (sharing data and code)
Robotic motion control and estimation using computer vision
Selective inhibitors for the human NEU enzymes for targeting atherosclerosis
Selective, Photochemically Promoted Functionalization of Indoles and Related Heterocyclic Systems
Signal processing of ultrasound guided waves in human tibia
Solid-state Nuclear Magnetic Resonance of Next-Generation Materials
solution-processed optoelectronics
Spline Multiwavelets
Sustainable northern transportation policy-making: Supporting communities and resource development through adapted, responsive transportation network analysis
Synthetic modifications and evaluation of novel Lipid-based nanoparticles for drug delivery
Temperature responsive gels for biomedical applications
The Impact of Body Composition Change on Colorectal Cancer Prognosis

Translational laboratory for testing trophic factors in neonatal short bowel syndrome
Treatments for transformations in new materials
Understanding air pollution - analysis of chemicals in atmospheric particulate matter
Understanding Star Formation in Nearby Galaxies
Vision system for plasma transfer arc additive manufacturing.
Volunteering abroad and Education to Global Citizenship at the postsecondary level
Welding Process for Unweldable Aerospace Alloys
Exploring human production and comprehension of spontaneous speech
Deep learning as a tool to automate wildlife identification
Developing a STATA package
Going Viral: The Dynamics of Belief Diffusion
Diffuse Connections: Making Sense of Smell in Canadian Diasporic Women's Writing

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Department
Chemical and Materials Engineering
Physics
各学院： Mechanical
Radiology & Diagnostic Imaging
Computing Science
Electrical and Computer Engineering
Renewable Resources
Surgery
Civil and Environmental Engineering
Educational Psychology
MLCS
Renewable Resources
Earth and Atmospheric Sciences
Pharmacy
China Institute
Chemistry
AFNS
CME

Chemistry
Mechanical
Medical Microbiology and Immunology
Radiology
Computing Science
Mechanical
Chemistry
Mechanical
Surgery

School of Public Health
Mechanical
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Science
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Mathematical and Statistical Sciences
Chemistry
Mathematical and Statistical Sciences
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Civil and Environmental Engineering
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Mechanical
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Renewable Resources
AFNS
EAS
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Civil & Environmental Engineering
Radiology & Diagnostic Imaging
Computing Science
AFNS
Mechanical
AFNS

Mechanica
Civil and Environmental Engineering
Computing Science
Mathematical and Statistical Sciences
Mechanical Engineering
Chemical and Materials Engineering
Chemical and Materials Engineering
Electrical and Computer Engineering
Mechanical Engineering
Chemical and Materials Engineering
Chemical and Materials Engineering
CME
Pharmacy
Psychiatry
Pediatrics
Mechanical Engineering
Civil & Environmental Engineering

Physics
Physics
Civil and Environmental Engineering
CME
Electrical and Computer Engineering

Chemistry

Mechanical

Mechanical

Civil and Environmental Engineering

Chemical and Materials

Electrical and Computer

Chemistry

Chemistry

Radiology & Diagnostic Imaging

Chemistry

Electrical and Computer Engineering

Mathematical and Statistical Sciences

Civil & Environmental Engineering

AFNS

Chemical and Materials Engineering

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Pediatrics
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Education
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Science
Fine Arts and Humanities