

Expert Network and Researchers (Sub Menu)

Expert Network and Researchers

1. Automotive

No.	Department	Name-Surname	Expertise	Descriptions
1	The Sirindhorn Thai-German Graduate School of Engineering King Mongkut's University of Technology North Bangkok	Assoc. Prof. Dr. Saiprasit Koetnyom	Automotive	<ul style="list-style-type: none"> - Road user based safety protection and design - Vehicle and component assessment - Crash and human simulation - Vehicle accident reconstruction - Vehicle based field test engineering
2	The Sirindhorn Thai-German Graduate School of Engineering King Mongkut's University of Technology North Bangkok	Assoc. Prof. Dr. Julaluk Carmai	Automotive	<ul style="list-style-type: none"> - Finite element modeling - Product design and development - Metal foam and its application in automotive
3	Department of Mechanical Engineering Chulalongkorn University	Asst. Prof. Sunhapos Chantranuwathana	Automotive	<ol style="list-style-type: none"> 1. Vehicle Dynamics and Control Systems 2. Automotive Applications 3. Adaptive Controls 4. System Dynamics and Controls

2. Telecommunication

No.	Department	Name-Surname	Expertise	Descriptions
1	The Sirindhorn Thai-German Graduate School of Engineering King Mongkut's University of Technology North Bangkok	Asst. Prof. Dr.-Ing. Suramate Chalermwisutkul	Telecommunication	<ul style="list-style-type: none"> - RF and microwave circuit and system design - RF frontends for wireless communications - RF and microwave applications such as heating, material processing and sensors - Satellite and aerospace communications - Backscattering technology incl. RFID and radars - Wireless power transfer and NFC
2	Electrical and Information Engineering The Sirindhorn Thai-German Graduate School of Engineering King Mongkut's University of Technology North Bangkok	Asst. Prof. Dr. Chaiyod Pirak	Telecommunication	<ol style="list-style-type: none"> 1. Mobile communication systems 2. Smart grid and smart meter technologies 3. Embedded system and FPGA implementation 4. Digital signal processing for wireless communications and cooperative communications
3	Department of Mechanical and Aerospace Engineering	Asst.Prof. Chak Chantalakhana	Telecommunication	<ol style="list-style-type: none"> 1. Signal Processing 2. Active Vibration Control, Vibroacoustics 3. Modal testing

	King Mongkut's University of Technology North Bangkok			
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3. Mechanical

No.	Department	Name-Surname	Expertise	Descriptions
1	The Sirindhorn Thai-German Graduate School of Engineering King Mongkut's University of Technology North Bangkok	Assoc. Prof. Dr. Ekachai Juntasaro	Mechanical Fluid Mechanics	<ul style="list-style-type: none"> - Computational fluid dynamics (CFD) - Turbulence and transition modeling - Unstructured finite volume method - Microfluidics - Fluid flow and heat transfer simulation
2	The Sirindhorn Thai-German Graduate School of Engineering King Mongkut's University of Technology North Bangkok	Dr.-Ing. Alexander Brezing	Mechanical	<ul style="list-style-type: none"> - Engineering Design

3	Department of Mechanical and Aerospace Engineering King Mongkut's University of Technology North Bangkok	Asst.Prof. Petch Jearanaisilawong	Mechanical	<ol style="list-style-type: none"> 1. Computational Mechanics 2. Mechanics of Materials 3. Fibrous Materials
4	Department of Mechanical Engineering King Mongkut's Uiversity of Technology Thonburi	Assoc. Prof. Surachate Chutima	Mechanical Engineering Software	<ol style="list-style-type: none"> 1. Computer Aided Design 2. Solid Modeling 3. Finite Element Modeling 4. Composite Materials 5. Balancing of Machinery 6. Preventive Maintenance 7. Applied Mechanics
5	Department of Mechanical Engineering Kasetsart University	Assoc. Prof. Withit Chatlatanagulchai	Mechanical	<ul style="list-style-type: none"> - Controls: Quantitative Feedback Theory, Backstepping Control, Intelligent Systems, Nonlinear Systems and Control. - Robotics: Motion Planning, Microcontroller, Machine Vision, Labview. - Vibrations: Vibration of Distributed Parameter System, Command Shaping Method.

6	Department of Mechanical Engineering Kasetsart University	Assoc. Prof. Varangrat Juntasaro	Mechanical Fluid Mechanics	<ol style="list-style-type: none"> 1. CFD 2. Turbulence modeling 3. Transport phenomena in micro and Nano scales 4. Grid generation 5. Parallel computing 6. Clean rooms technology
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4. Material

No.	Department	Name-Surname	Expertise	Descriptions
1	Materials and Production Engineering The Sirindhorn Thai-German Graduate School of Engineering King Mongkut's University of Technology North Bangkok	Asst. Prof. Dr.-Ing. Piyada Suwanpinij	Materials	<ol style="list-style-type: none"> 1. Surface treatment 2. Fatigue 3. Residual stress 4. Shot peening
2	Department of Production Engineering King Mongkut's University of Technology North Bangkok	Assoc. Prof. Siriporn Daopiset	Materials	<ol style="list-style-type: none"> 1. failure of engineering material 2. fracture mechanics 3. fatigue

3	Department of Production Engineering King Mongkut's University of Technology North Bangkok	Asst. Prof. Surungsee Dechjareern	Materials	<ol style="list-style-type: none"> 1. Fatigue 2. Wear and fracture mechanics 3. Failure of engineering material
4	Department of Production Engineering King Mongkut's University of Technology North Bangkok	Asst. Prof. Sasithorn Bland	Materials	<ol style="list-style-type: none"> 1. Powder Metallurgy 2. Hot Deformation and Material Modeling
5	Department of Production Engineering King Mongkut's University of Technology North Bangkok	Dr. Sithipong Mahathanabodee	Materials	<ol style="list-style-type: none"> 1. Surface engineering 2. Wear of materials and industrial coating applications
6	Department of Mechanical Engineering King Mongkut's University of Technology Thonburi	Asst. Prof. Anak Khantachawana	Materials	Hot forging
7	Department of Tool and Materials Engineering King Mongkut's University of Technology Thonburi	Dr. Sutatch Ratanaphan	Materials	Casting Microstructure

8	Materials Technology School of Energy, Environment and Materials King Mongkut's University of Technology Thonburi	Asst. Prof. Siriporn Rojananan	Materials	1. Rapid Solidification Technology 2. Metal Powder Injection Moulding 3. Nanocrystalline and Magnetic Materials 4. Amorphous and Glass Metallic Materials
9	Department of Materials Engineering Kasetsart University	Asst.Prof.Dr.-Ing. Patiphan Juijerm	Materials	1. Surface treatment 2. Fatigue 3. Residual stress 4. Shot peening
10	Materials and Production Engineering The Sirindhorn Thai-German Graduate School of Engineering King Mongkut's University of Technology North Bangkok	Asst. Prof. Dr. Yingyot Aueulan	Materials Metal forming	Metal forming
11	Department of Mechanical Engineering King Mongkut's University of Technology Thonburi	Assoc. Prof. Pongpan Kaewtatip	Materials Metal forming	1. Application of FEM in the field Metal Forming 2. Application of Ultrasonic Vibration in the field of Metal Forming
12	Department of Tool and Materials Engineering King Mongkut's University of Technology Thonburi	Assoc. Prof. Varunee Premanond	Materials Metal forming	Metal Forming
13	Department of Tool and Materials Engineering King Mongkut's University of Technology Thonburi	Asst. Prof. Onnjira Deawwanich	Materials Metal	Phase Transformations of Alloys

14	Department of Tool and Materials Engineering King Mongkut's University of Technology Thonburi	Dr. Pijarn Jornsano	Materials Metal and Polymer	- Materials Science and Engineering (Metallurgy / Polymer) - Electron Microscopy / Electron tomography / 3D imaging
15	Manufacturing Engineering Institute of Engineering Suranaree University of Technology	Dr. Piyamon Poapongsakorn	Materials Fracture Mechanics	1.failure of engineering material 2. fracture mechanics 3. fatigue
16	Mechanical Engineering Department Thammasat University	Prof. Dr. Chaosuan Kanchanomai	Materials Fracture Mechanics	1. Fatigue 2. Wear and fracture mechanics 3. Failure of engineering material
17	Advanced Metallurgy Laboratory National Metal and Materials Technology Center	Dr. Anchalee Manonukul	Materials Powder Metallurgy Hot Forging	1. Powder Metallurgy 2. Hot Deformation and Material Modeling
18	Engineering Development Department Royal Thai Naval Dockyard	Lt.Comdr. Dr. Bopit Tossathepphithak	Materials Hot Forging	Hot forging
19	Engineering Development Department Royal Thai Naval Dockyard	Cdr. Dr. Swieng Thuanboon	Materials Casting Microstructure	Casting Microstructure

20	Department of Tool and Materials Engineering King Mongkut's University of Technology Thonburi	Asst. Prof. Sirinthorn Thongsang	Materials Rubber and Polymers	- Rubber Composite - Friction and Wear of Polymers
21	Biological Engineering King Mongkut's University of Technology Thonburi	Dr. Sirinrath Sirivisoot	Materials Biomaterials	- Nanotechnology - Biomaterials and Biomedical Devices
22	Department of Mechanical and Aerospace Engineering King Mongkut's University of Technology North Bangkok	Asst.Prof. Pongsak Nimdum	Materials Composite Materials	1. Composite Materials, Short Fiber Reinforced Composite 2. Adhesive Joint, Non- Destructive Testing (NDT) 3. Pressure Vessel in Composite Materials
23	Production Engineering King Mongkut's University of Technology Thonburi	Asst.Prof.Dr.Chaiya Dumkum	Materials Surface engineering	1. Manufacturing process and material 2. Surface engineering and coating processes 3. Coating and material characterization 4. Machining and advanced metal cutting 5. Biomaterials
24	Thai Industrial Creation Research and Development Research Network	Dr. Nurot Panich	Materials Surface engineering	- Surface Engineering
25	Materials Reliability Research Unit National Metal and Materials Technology Center	Dr.Panadda Sheppard	Materials Surface engineering	1. Surface engineering 2. Wear of materials and industrial coating applications

26	The Sirindhorn Thai-German Graduate School of Engineering King Mongkut's University of Technology North Bangkok	Asst. Prof. Dr. Rapeephun Dangtungee	Materials Polymer	<ul style="list-style-type: none"> - Polymer Engineering and Processing - Composites and Rubber Materials - Polymer Rheology - Polymer Nanocomposites - Biopolymer - Nanomaterials
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5. Other

No.	Department	Name-Surname	Expertise	Descriptions
1	The Sirindhorn Thai-German Graduate School of Engineering King Mongkut's University of Technology North Bangkok	Asst. Prof. Dr. Unalome Wetwatana	chemicals	<ul style="list-style-type: none"> - Catalysis and reaction engineering - Hydrogen production - Solar Thermal Technology - Biomass to fuels and chemicals - CO2 utilization - Material and technology development for catalytic process
2	Faculty of Applied Science	Assoc. Prof. Dr. Surapun Yimman	Physics	

	King Mongkut's University of Technology North Bangkok			
3	Department of Mechanical Engineering Technology College of Industrial Technology King Mongkut's University of Technology North Bangkok	Assoc. Profst.Prof.Sathaporn Chatakorn	plastic mold design	<ol style="list-style-type: none"> 1. Die and mold design for plastic molding 2. Flow analysis of plastic molding 3. Rapid tooling for plastic molding
4	Sirindhorn International Institute of Technology, Thammasat University	Dr.Virach Sornlertlamvanich	Tribology	<ol style="list-style-type: none"> 1. Lubrication 2. Tribological (Rubbing Bodies) Wear 3. Contact Mechanics
5	Automotive Laboratory MTEC	Dr. Jinna Pennachart	Tribology	<ol style="list-style-type: none"> 1. Lubrication 2. Tribological (Rubbing Bodies) Wear 3. Contact Mechanics
6	Institute of Field roBOTics (FIBO) King Mongkut's Uiversity of Technology Thonburi	Asst. Prof. Dr.Thavida Maneewarn	Robotice and Mechanical	<ol style="list-style-type: none"> 1. Haptic Interface 2. Virtual Reality 3. Teleoperation 4. Analytical Kinematics 5. Intelligent Control

7	Department of Mechanical Engineering, Kasetsart University	Dr.Worapong Sawangsri	Tools	<ul style="list-style-type: none"> - Precision and micro manufacturing - Micro cutting mechanics investigation - Design of high precision machine tools - Advanced manufacturing method and technology - Design and analysis of micro/conventional cutting tools - Manufacturing System & Management
8	Department of Civil Engineering, Thammasat University	Assoc. Prof. Dr. Agachi Sumalee	Transportation	<ol style="list-style-type: none"> 1. Transportation Engineering 2. Political Science 3. Mathematical & Quantitative Methods
9	Power Electronics Technology, College of Industrial Technology, King Mongkut's University of Technology North Bangkok	Dr.Thawatchai Wongchang		
10	Electrical Engineering, Faculty of Engineering, King Mongkut's University of Technology North Bangkok	Assoc.Prof.Dr.Phongsak Keeratiwintakorn		

11	Department of Computer and Science Information ,King Mongkut's University of Technology North Bangkok	MR.ANUSORN WONGSANIT		
12	Electronics and Telecommunications Engineering, Faculty of Engineering King Mongkut's University of Technology Thonburi	Asst. Prof. Dr. Rardchawadee Silapunt		Plasma Etching
13	School of Physics - Institute of Science, Suranaree University of Technology	Dr. worasom kunteekarn		
14	Mchatronics Engineering Asian Institute of Technology and Embedded system	Assoc.Prof.Dr. Mongkon Panyaekkaphong		