

Interns Request for International Internship Program@FSci, KMUTT 2020

	Department	Level	Fields/Specialization	Research Topic / Reseach Area	Job Description	English Proficienc	Special Requiremen	Internship Experience
1	Chemistry	Undergraduate 3rd or 4th year or Postgraduate Student	Science, Engineering/ Chemistry, Environmental Engineering or Environmental Science, Technology or Chemical Engineering / Wastewater treatment/waste management/Valorization of agro-industrial by-products	Valorization of agro-industrial by-products	Conduct laboratory research involve extraction , purification and characterization of the extracts	good	English for writing and communication	no
2	Chemistry	Postgraduate Student	Science/Analytical Chemistry	Development of strip test for anions detection in food and environmental applications	Synthesis of nanoparticles (NPs), Characterization of NPs, Invention of strip test, Detection of anions using NPs	good	Can communication in english language	no
3	Chemistry	Undergraduate 3rd or 4th year Student	Science, Chemistry (General or specific Analytic Chemistry)	Modification of cotton fabrics using rhodamine B dye for qualitative and quantitative analysis of metal ions	Prepare the cotton fabrics coated with rhodamine B dye and use as sensors for monitoring metal ions in aqueous solution	good	-	no
4	Chemistry	Undergraduate 3rd or 4th year Student	Science, Chemistry (General or specific Analytic Chemistry)	Fluorescence sensing and determination of surfactant in aqueous solution	-Prepare chemical sensors based on interaction between fluorescent dyes and surfactant .	good	-	no
5	Chemistry	Undergraduate 3rd or 4th year or Postgraduate Student	Polymer chemistry	Mention sensor and Self-healing material based on conductive rubber composites	Preparation of rubber composites using internal mixer and compression molding	good	Rubber/Polym er compounding is required	yes

Interns Request for International Internship Program@FSci, KMUTT 2020

	Department	Level	Fields/Specialization	Research Topic / Reseach Area	Job Description	English Proficienc	Special Requiremen	Internship Experience
6	Chemistry	Undergraduate 3rd or 4th year or Postgraduate Student	Science/ Organic Chemistry	A fluorometric sensor array for the discrimination of cations and volatile organic compounds (VOCs) with salicylidene azine derivatives	To make paper-based fluorescent sensors via rapid fluorescent signal in response to exposure to VOC vapors. A smartphone was used as an alternative device to monitor fluorescence signal changing. The photo image obtained from the smartphone camera was converted into RGB values by a conventional image-processing program.	good	Organic Synthesis	no
7	Chemistry	Undergraduate 3rd or 4th year or Postgraduate Student	Polymer chemistry	Chemistry (organic synthesis)	Synthesize amphiphilic chitosan	good	Experience on organic synthesis is preferred but not required.	no
8	Chemistry	Undergraduate 3rd or 4th year or Postgraduate Student	Polymer chemistry	Analysis of Edible Bird's Nest Component	Analyze components in edible bird's nest by FT-IR and ICP	good	Experience in organic chemistry or analytical	no
9	Chemistry	Undergraduate 3rd or 4th year	Cosmetic Science / Industrial chemistry	-Development of cosmetic formulation '-Study of bioactivity of natural products '-Wastewater treatment with agricultural waste	Student can discuss with advisor himself.	good		no
10	Chemistry	Undergraduate 3rd or 4th year or Postgraduate Student	Polymer chemistry	Catalysis by silver and copper nanoparticles	-Prepare and charactorize silver and copper nanoparticles '-Use the prepared nanoparticles for catalysis	good		no

Interns Request for International Internship Program@FSci, KMUTT 2020

	Department	Level	Fields/Specialization	Research Topic / Reseach Area	Job Description	English Proficienc	Special Requiremen	Internship Experience
11	Mathematics	Undergraduate 3rd or 4th year or Postgraduate Student	Computer Science, IT, related fields	Machine Learning, Deep Learning, Data Science	Reseach, Paper , or Project about Machine Learning	good	Knowledge of Data Science, Experience in writing programs in at least 1	no
12	Mathematics	Undergraduate 3rd or 4th year	Probability, Statistics	Distributional Approximation (Probability), Applied Statistics, Simulation	Prove mathematical problems (Probability), Simulation, Writing Codes and analyze (Applied Statistics)	good	Work hard, have self-discipline	no
13	Mathematics	Undergraduate 3rd or 4th year	Computer science	Computer vision and machine learning	Junior researcher	good	Machine learning, Python	
14	Mathematics	Undergraduate 3rd or 4th year or Postgraduate Student	Probability Theory & Statistics	"Probability, Real Analysis Financial Mathematics A new theory of stochastic integration	Student can discuss with advisor himself.	good		no
15	Physics	Undergraduate 3rd or 4th year or Postgraduate Student	Science/ Engineeing,	-Electrochemical Investigation of carbon-based - Materials for Application in Supercapacitor	-Using electro chemical technique for characterizations of carbon-based materials - Measuring the parameters related to the performance of the supercapacitor	good		no

Interns Request for International Internship Program@FSci, KMUTT 2020

	Department	Level	Fields/Specialization	Research Topic / Reseach Area	Job Description	English Proficienc	Special Requiremen	Internship Experience
16	Physics	Postgraduate (Master's) Student	Science, Materials Science, Engineering/ Luminescence and Scintillation Materials, Radiation Physics	<ol style="list-style-type: none"> 1. Luminescence and scintillation characteristics of single crystal scintillators 2. Luminescence and scintillation characteristics of ceramic scintillators 3. Gamma rays attenuation coefficient of inorganic single crystals 	Our researches are related with the luminescence and scintillation materials for detection of X/gamma, alpha-rays such as scintillation crystals, scintillation ceramic sand scintillation glasses. The Photoluminescence spectrum, optical absorption spectrum, scintillation response (light yield and decay time), as well as the attenuation coefficient for gamma rays are the main parameters we are measuring here.	good		yes
17	Physics	Postgraduate (Master's) Student	Science, Materials Science, Engineering/ Luminescence and Scintillation Materials, Radiation Physics	<ul style="list-style-type: none"> -Laser ablation s in high vacuum For thin film semiconductor - IOT With agriculture and industrial - Energy harvesting (Thermoelectric,Solar, etc..) - One Tambon One Product (OTOP) food processing One Village One Product (OVOP) food processing 	<ul style="list-style-type: none"> -Thin film semiconductor preparation - making sensor - Small IOT circuit for sensing and controlling agriculture / industrial - Electricity generated from waste heat - One Tambon One Product (OTOP) working with experts to making / analysing 	good		yes
18	Microbiology	Undergraduate 3rd or 4th year or Postgraduate Student	Science, Agriculture, Natural Resource, Forestry or related area/Biological science or related fields	<ul style="list-style-type: none"> -Soil Microbial Diversity -Plant Microbe interaction 	Discuss with the advisor	good		
19	Microbiology	Undergraduate 3rd or 4th year or Postgraduate	Science, Agriculture, Engineering, Technology, or related fields	Bioeconomy (exclude molecular)	Discuss with the advisor	good	Diligent, keen to work hard	preferable but not required
20	Microbiology	Undergraduate 3rd or 4th year or Postgraduate (Master's) Student	Science,Engineering,Biology, Microbiology, Biotechnology, Biochemistry	Enzyme Engineering Improvement of Xylanase and Cellular	Research Assistant	fair		no
21	Microbiology	Undergraduate 3rd or 4th year or Postgraduate (Master's) Student	Science/Biology, Microbiology, or related field	Probiotics / Protien & Peptide	Discuss with the advisor	good		no