					Automated Task Plan	ning	
Research Topic Title:							
No. of Openi	ings:	1					
Description:			Auto and synt requ invo plan Syste	mated ta autonom hesis of ested co lved in t ning plat ems labo	ask planning is a core to nous systems, automa the sequence of sin mplex operation. For the evolution of the tform, that was deve ratory (www.rcdslab.o	technology in Artificial Intelligence. In robotics ted task planning is used for the creation and apple tasks that are necessary to achieve a the announced opening the candidate will be algorithms of the SPECTER automated task loped in the Robotics Control and Decision org) of the MEM Department of CUT.	
Funding:				The successful candidate will have the option for a scholarship/funding according to the University policy (https://www.cut.ac.cy/studies/phd). Future funding from participation to external research projects is possible, based on the performance of the candidate and the future availability of funds.			
Required Qualifications:				Undergraduate degree in Mathematics / Physics / Computer Science or Engineering.			
				Graduate degree in the field of Robotics / Autonomous Systems / AI or a related field.			
					Proficient in C/C+-	-	
					Strong mathemati	cal background	
					Knowledge of p considered as an a	parallel or distributed processing will be advantage.	
					Eligibility to work	n EU.	
Research Advisor:							
Name/Surna Savvas G. Loizou me:							
Position:	Associate Professor			sor			
Email:	savvas.loizou@cut.ac.cy						

					Synthesis and Charact	cerization of Functional (Nano)materials	
Research Topic Title:							
No. of Openi	ings:	1					
			The avail scho	position ability c larship.	is for a full-time stu of relevant funds, al	ident, offering partial funding based on the ong with a full tuition waiver through a	
Description:		Applicants should hold an undergraduate and/or Master's degree (or equivalent) in Chemical or Mechanical Engineering, Chemistry, Physics, or Materials Science or any other related field.					
			A strong academic record is essential. Moreover, previous experience in a synthetic laboratory will be considered an asset.				
			The i utiliz for st	research ing a ran tructural	will focus on the synt ge of chemical and phy , spectroscopic, and m	hesis and characterization of (nano)materials, ysical synthesis methods, as well as techniques nagnetic characterization.	
Funding:			<u> </u>		( <b>a</b> ) Full tuition wait decisions of the 22	ver provided through a scholarship, as per the 21st Senate Session.	
				( <b>b</b> ) Partial funding, subject to availability, for a period of three years (including start-up funding).			
Required Qualifications:				Bachelor's or Master's degree (or an equivalent recognized qualification) in Chemical Engineering, Mechanical Engineering, Chemistry, Physics, or Materials Science.			
Research Advisor:							
Name/Surna me:	Melita Menelaou			l			
Position:	Assistant Professor			or			
Email:	melita.menelaou@cut.ac			@cut.ac	.cy		

Research Topic Title:		Innovative Technology Development for Sustainable Photon Energy Management with Advanced Materials		
No. of Openings: 1				
Description:	<ul> <li>One PhD position is available in the Device Technology and Chemical Physics Laboratory (<u>http://www.devtechcp.eu/</u>) at the Department of Mechanical Engineering and Materials Science and Engineering (MEMSE).</li> <li>The position focuses on i) the study and spectroscopic characterization of advanced light-harvesting materials and ii) the development of novel architecture devices, aiming to improve the performance level of solar energy exploitation technologies, including photovoltaics, solar fuels and photocatalysts.</li> <li>Expressions of interest must be submitted together with a detailed curriculum vitae, a certificate of English language proficiency, a Cover Letter, 2-3 Letters of Recommendation, and a brief research statement highlighting the reasons that make desirable the selection of this research topic.</li> </ul>			
Funding:		The successful applicant may have access to scholarship/funding opportunities in accordance to the CUT policy (https://www.cut.ac.cy/studies/phd). Subject to availability, further funding may be provided on a competitive basis via the participation in the Advanced Spectroscopy Unit for Sustainable Light Management of the MEMSE Department at CUT (project 'ASPERIUM', SMALL SCALE INFRASTRUCTURES/1222/0067). The 'ASPERIUM' project is implemented under the programme of social cohesion "THALIA 2021-2027" co-funded by the European Union, through Research and Innovation Foundation.		
Required Qualifications:		The candidate must hold an undergraduate degree in Materials Science or Chemistry or Physics or in a related field from an internationally recognized University. The candidate is expected to have very good academic performance and well-developed soft-skills, with analytical capacity, aptitude for experimental work and diligence in data processing with Origin Lab or similar specialized software packages. Previous certified work experience in research projects with the use of spectroscopic techniques, a Master Degree in Molecular Spectroscopy/Materials for Nanotechnology/Energy or a related field, knowledge of programming with MatLab/LabView will be considered as an advantage. The certified fluency in English (excellent written and verbal communication skills) is a requirement. In absence of a Master's degree, the attendance of postgraduate courses with a total of 60 ECTS is an integral part of the doctoral studies program		

		given to the pos 'Advanced Concep	tgraduate cour ots in Smart Ma	rse of the MEM aterials'.	SE Department
Research Adv	icor:	The Device Tec encourages the p aligns in full with University (CUT): <u>https://ww trative-services/hu cut/%CE%99%CF%</u>	hnology and participation of n the Equality of <u>vw.cut.ac.cy/ur</u> <u>r/work-life-at- 683%CF%8C%C</u>	Chemical Phys f female PhD ca Plan 2022-2024 hiversity/adminis	sics Laboratory ndidates and it of the Cyprus Technology stration/adminis
Research Auv	1501.				
Name/Surna me:	Panagiotis E. Keivanidis				
Position:	Associate Professor				
Email:	p.keivanidis@cut.ac.cy				

		D	esign of an Improved	I flat plate solar collector
Research Topic Title:				
No. of Openings:	2			
Description:	The a p can acc sho bao Kno as a trai	e position is o partial grant didate shou redited degr uld have an kground. Ac owledge of t an advantage nsition and s	open for full time stud t with subsequent f uld hold an undergra rees) in the field of M n exceptional acade dditionally, computer he TRNSYS program f e. The study will cons sustainability.	dents only. The successful candidate will receive funding subject to availability of funds. The aduate and a Masters degree (or equivalent echanical or Energy Engineering. The candidate mic record with a very strong mathematical r literacy and programming skills are essential. or modeling of solar systems will be considered ider ecological concerns and will help the green
Funding:			Partial, subject to a	availability of funds for 3 years.
Required Qualifications:			BSc in Mechanical I	Engineering and Master in Energy
Research Advisor:				
Name/Surname: Soteris Kalogirou				
Position: Professor				
Email:	Soteris.kal	ogirou@cut	ac.cy	

Research Topic Title:	PhD in Complex Fluids Rheology and Microfluidic flows
No. of Openings:	2
Description:	<b>Project Description.</b> Biofluids, liquid biomass, foods, pharmaceutical products, polymer solutions, suspensions, surfactants, gels, and other industrial fluids show complex rheological properties, which become of particular importance in determining the characteristics of the flow at the microscale. In this program, advanced rheological and structural characterization of various complex fluids will be performed, in order to elucidate the influence of their properties in microscale flows. State of the art rheometry and in-house fabricated microfluidics will be utilised, in combination with flow and structural characterization techniques to investigate various aspects of the complex fluid flow problem.
Funding:	The PhD is partially funded under the program Research Infrastructures / Small Scale Infrastructures, of the Cyprus Research and Innovation Foundation, Project CRaFTC.
Required Qualifications: Research Advisor:	Applicants must have an Undergraduate Degree in Mechanical Engineering, or in a related field, a Master's degree in Mechanical Engineering or in a related field, and preferably having completed an experimental Masters project in a relevant to the present study field. Experience in experimental biofluid physics/mechanics, rheology/biorheology, microfluidics, and data processing is essential. Candidates without a Master qualification, but with a strong undergraduate degree and relevant experience in fluid (biofluid) mechanics / rheology / microfluidics projects, will be considered; in this case, Master modules of 60 ECTS should be taken and completed successfully as part of the PhD Program. Experience in projects involving blood or biofluid handling and treatment is a significant advantage. The candidate should be able to work in an interdisciplinary team, collaborate with industrial partners, and have good oral and written communication skills in English. The candidates should provide a Cover Letter, an English-written one-page preliminary research proposal, which will be relevant to the theme of the project, and two reference letters.
Kesearch Advisor:	fstathios Kaliviotis
Name/Surname:	Associate Professor
Email:	e.kaliviotis@cut.ac.cy