

Entidad / Erakundea	Id	Proyecto / Proiektua	País / Pais /	Titulación / Formakuntza	Actividad / Iharduera	Nº/ Zb.
UNIVERSITY OF FREIBURG	13639	BECAS CT2021 - Using light to recycle polymeric materials (Polymer chemistry and material science.) (ALEMANIA, Friburgo)	ALEMANIA	Chemistry, polymer science	The applicant must develop autonomous materials able to be transformed using light. Light will be used to recycle, reshape and reuse polymeric materials. Noninvasive UV-VIS light will be employed to upcycle plastic waste into new materials. Moreover the selected candidate will need to write report and present the work in international conferences.	1
International Business Machines (IBM)	13640	BECAS CT2021 - Valorization of CO2 for the preparation of sustainable chemicals using automated systems (Research) (EEUU San Jose)	ESTADOS UNIDOS	Chemistry, Material Science, Chemical Engineer or similar	Synthesis of monomers using CO2 aided by artificial intelligence. Characterization of the materials by spectroscopic techniques. Design of more sustainable and "Green" processes for chemical production. Present the job in international conference. Prepare reports about the research activities	1
Dana-Farber Cancer Institute. Harvard	13641	BECAS CT2021 - Characterization and function of alloreactive regulatory T cells (EEUU, Boston)	ESTADOS UNIDOS	Biomedicine (Biology, Biochemistry, Medicine, Pharmacy)	The intern will be supporting ongoing research projects on the characterization and function of alloreactive regulatory T cells. Techniques that will be used include: isolation of peripheral blood cells, cell culture, and various molecular and immunology techniques to assess immune responses, such as real time PCR and Flow Cytometry. Other skills that will be developed include: data analysis and presentation (oral and written). The Institute is a translational laboratory studying various aspects of cellular adaptive immunity, especially in relation to T regulatory cells and their application as cell therapy in the context of organ transplants.	1
MIT Massachusetts Institute of Technonology	13642	BECAS CT2021 - Regenerative medicine. Developing in vivo approaches to study and engineer organ regeneration (EEUU Cambridge MA)	ESTADOS UNIDOS	Health Sciences (Biology, Biochemistry, Medicine, Pharmacy)	The Knouse Lab studies how tissues sense and respond to injury with the goal of better understanding and engineering organ regeneration. The trainee will participate in ongoing research projects involving liver or cardiac regeneration and engineering of selective lentiviral vectors. During the internship, the trainee will have the opportunity to learn and assist with different techniques such as, mouse colony maintenance, mouse surgeries, tissue processing, lentiviral vector production, CRISPR/Cas9 screens, immunostaining and confocal microscopy. In addition, the trainee will also acquire skills in data statistical analysis, presentation and discussion of results. For more information on our lab, please visit knouselab.org	1
UNIVERSITY OF PITTSBURGH	13643	BECAS CT2021 - Characterization of novel non-coding-RNAs in SMC phenotypic differentiation (Vascular Biology/ Epigenetics) (EEUU, Pittsburgh)	ESTADOS UNIDOS	Health Science (Biology, Chemistry, Biotechnology)	The student will be supporting ongoing projects in Dr. Delphine Gomez laboratory. The intern will learn different nucleic acid extractions (RNA, DNA and gDNA, chromatin) and analyze gene expression by RT-qPCR	1
UNIVERSITY OF MARYLAND SCHOOL OF MEDICINE	13644	BECAS CT2021 - Developing dose response models and radiotherapy (RT) planning strategies to reduce post-RT lung toxicity (Medical Physics/Radiation Oncology)(EEUU Baltimore, MD)	ESTADOS UNIDOS	Physics, Engineering	One of the main research projects carried out in our laboratory is focused on improving the state of the art in lung radiotherapy (RT) treatment planning to preserve post-RT respiratory function. Toward this goal, the lab has developed novel patient-specific strategies to reduce lung toxicity after RT treatment. The trainee will participate in this project receiving a hands-on professional training in some basics of radiation therapy physics, biology, and math. During the internship, the trainee will have the opportunity to learn and assist with different dose response modeling techniques such as normal tissue complication probability (NTCP) Models, and the novel application of computational fluid dynamics (CFD) to model the airflow through the airways and the blood flow through the pulmonary vessels. In addition, the trainee will also learn how to create an RT plan in a clinically used commercial treatment planning system (Eclipse), including the previous steps of data preparation such as autosegmentation of the individual airways/vessels and image processing (deformable image registration, image resizing and filtering, etc). Whether the results are suitable to be included in a scientific publication, the student will receive due credit, including authorship	1

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Virginia Commonwealth University	13645	BECAS CT2021 - Pathophysiology of cardiovascular diseases: mechanisms and treatments (Cardiovascular/ Health Sciences) (EEUU, Richmond)	ESTADOS UNIDOS	Health Sciences (Biology, Biotechnology, Biomedicine, Medicine, Pharmacy, Kinesiology or Physical Therapy)	The intern will be part of a multidisciplinary team investigating the physiological and molecular mechanisms that contribute to the development of cardiovascular dysfunctions in different populations. We are currently investigating cardiovascular health in patients with COPD, cystic fibrosis, obesity or early life stress, among others. We also complete clinical trials with different drugs and over the counter products to investigate potential effects in these populations. During the internship, the intern will be part of the research team, learning how to run study visits with the patients and how to complete both clinical and molecular techniques. Specifically, the intern will learn clinical techniques including echocardiography, spirometry, laser Doppler, arterial stiffness, near-infrared spectroscopy, DXA or exercise tests, among others. The intern will also learn and master molecular techniques including cell culture, live cell imaging, multiplex protein assessment or ELISAs, among others. Finally, the intern will also develop oral and writing skills communicating results and discussing analysis with the team and collaborators	1
Beth Israel Deaconess Medical Center Harvard University	13646	BECAS CT2021-Alicanto project a platform used in 13 hospitals and 17 affiliates in the BILH healthcare system to share cancer guidelines (Develop. Analytical tools) (Clinical Informatics)EEUU Boston	ESTADOS UNIDOS	Engineering or Computer Related educational program	Alicanto is a platform used in 13 hospitals and 17 affiliates in the BILH healthcare system to share cancer guidelines, education on new care treatments and discuss difficult cancer cases. Project is to develop analytical tools to understand communication patterns for collaborations among health care professionals on the Alicanto platform. Develop novel ways to index and search clinical care guidelines and clinical cases discussed in the Alicanto virtual tumor board system. Details at: https://scholar.harvard.edu/yuriquintana/alicante-social-learning	1
Beth Israel Deaconess Medical Center Harvard University	13647	BECAS CT2021 - InfoSAGE project, web-based remote patient monitoring application (Development of App for Medical Management) (Clinical Informatics) (EEUU Boston)	ESTADOS UNIDOS	Engineering or Computer Related educational program	InfoSAGE is web-based remote patient monitoring application. The intern will develop a mobile app, using ReactNative, for medication management and reminders in English and Spanish for the InfoSAGE project. We are investigating the use of tailored messages in the patient's preferred language to improve the patient's medication adherence and understanding of medication side effects. Details at https://scholar.harvard.edu/yuriquintana/infosage-%E2%80%93elder-care-network	1
HSSMI Ltd - High Speed Sustainable Manufacturing Institute	13638	BECAS CT2021 - Digital Manufacturing, Manufacturing Strategy, Circular Economy (UK Londres)	REINO UNIDO	Engineering	HSSMI is a specialist consultancy which provides manufacturing engineering support to companies who need to scale up production in new areas such as electric vehicle, batteries, hydrogen vehicles, electric motors. The trainees will support two projects which focuses on battery and hydrogen vehicle manufacturing. We are seeking interns which can support the three main areas: 1) Digital modelling of new production lines (e.g. model creation, scanning, digital asset management) 2) Support development of processes, engagement with suppliers and project management of a launch of a new hydrogen vehicle manufacturing line 3) Support definition of processes and supplier evaluation for battery manufacturing	1