

## INTERNSHIP OFFER FOR INTERNATIONAL STUDENTS

<b>INSTITUTION</b>	Universidad Politécnica de Cartagena <a href="http://www.upct.es">www.upct.es</a> South-East of Spain
<b>SHORT DESCRIPTION OF THE INSTITUTION</b>	The UPCT is a public institution, established in 1998 in Spain. It is comprised of 7 Schools of Engineering, Business and Architecture and offers several Master and PhD Programmes.
<b>RECEIVING SCHOOL/FACULTY</b>	Escuela Técnica Superior de Ingeniería Agronómica ( <a href="#">ETSIA</a> ) School of Agricultural Engineering
<b>ADRESS</b>	<a href="#">Paseo Alfonso XIII, 48.</a> <a href="#">30203. Cartagena. Murcia.</a> <a href="#">Spain.</a>
<b>PLACEMENT OFFERED</b>	Department of Agricultural Engineering. Animal Production Area.
<b>DESCRIPTION OF THE PLACEMENT ACTIVITY</b>	<p><b>Title:</b> Animal breeding strategies in animal production</p> <p><b>Mentor:</b> Dr. Antonio Vallecillos Quijada.</p> <p><b>Overview:</b> The student is expected to be involved in a project related to aquatic species and chicken, focusing on genetic information for traceability and pathogen resistance.</p> <p><b>Key Responsibilities:</b> During the stay, the student is expected to work in molecular genetics. This will involve laboratory assays for pathogen resistance, studying specific regions of the genome, and analysing the complete genome of the gilthead sea bream and chicken:</p> <ul style="list-style-type: none"> <li>• DNA extraction.</li> <li>• DNA quantification using NanoDrop and Qubit.</li> <li>• PCR execution.</li> <li>• Genome-Wide Association Study (GWAS).</li> <li>• Measure meat quality (FAME, Soxhlet) and carcass quality parameters.</li> </ul> <p><b>Skills Developed:</b></p> <ul style="list-style-type: none"> <li>• <b>Technical Skills:</b> Programming, lab work, etc.</li> <li>• <b>Soft Skills:</b> Communication, teamwork, time management, problem-solving, leadership, etc.</li> </ul> <p><b>Reflection:</b> With these practices, the student will gain knowledge in the study of the genetics of emerging species in</p>

	European aquaculture and local breed. Additionally, they will develop their laboratory skills.
<b>REQUIRED STUDENT PROFILE</b>	Master's or undergraduate student in Biology, Veterinary Medicine, Agricultural Sciences, or biotechnology.
<b>REQUIRED SKILLS</b>	<ul style="list-style-type: none"> <li>• Precision in conducting experiments and recording data.</li> <li>• Competence in using specialized laboratory equipment.</li> <li>• Skills in handling and processing biological samples.</li> <li>• Ability to present and discuss research findings clearly.</li> <li>• Attitude to work in group.</li> </ul>
<b>WORKING LANGUAGE</b>	Spanish and/or English (also Italian is understood).
<b>DURATION</b>	Four months.
<b>WORKING HOURS</b>	30 hours per week.
<b>FINANCIAL AID</b>	<p>No.</p> <p>FREE SPANISH CLASS ACCORDING THE ACCADEMIC YEAR.</p>
<b>ACADEMIC CONTACT</b>	<p>Dr. Antonio Vallecillos Quijada – Mentor</p> <p><a href="mailto:antonio.vallecillos@edu.upct.es">antonio.vallecillos@edu.upct.es</a></p> <p>+34 968 325533</p>
<b>ADMINISTRATIVE CONTACT</b>	<p>Anna Gargiulo – International Office</p> <p><a href="mailto:relint@upct.es">relint@upct.es</a></p> <p>+34 968 325971</p>