

# INESC TEC Open Week: “Come and discover the wonderful world of science and engineering”

## May 7 and 9 @INESC TEC | Agenda

Schedule	May 7	May 8	May 9
9:30 a.m. - noon	<p><b>Immersive robotics – who wants to pilot robots? You're in charge!</b></p> <p>The rendezvous point for this initiative is the Industry and Innovation Laboratory at INESC TEC (iiLab)<sup>1</sup>. In the morning, students will have the opportunity to explore this state-of-the-art laboratory infrastructure, dedicated to industrial robotics, and to engage in hands-on experiences of teleoperating mobile robots using virtual reality. We also planned an augmented reality experience for operating and programming robots.</p>	<p><b>Power-up! Green energy for a sustainable future! How can we change the world?</b></p> <p>The rendezvous point for this initiative is the main building of INESC TEC. In the morning, students will have the opportunity to visit the x-Energy laboratory at INESC TEC and learn how we are contributing to a more sustainable future, taking part in hands-on experiences in sustainable consumption and electric vehicles. We planned different interactive quizzes.</p>	<p><b>Invisible signs: discover the power of communications</b></p> <p>The rendezvous point for this initiative is the main building of INESC TEC. In the morning, students will have the opportunity to visit the Communications Laboratory at INESC TEC and take part in hands-on experiences, including assembling electronic circuits for wireless signal transmission and configuring Wi-Fi networks.</p>
	<p><b>AgroTech in action: robotics and IoT for a sustainable future</b></p> <p>The rendezvous point for this initiative is the main building of INESC TEC. In the afternoon, students will have the opportunity to visit the TRIBE<sup>2</sup> laboratory, where robots and IoTs are developed for application in precision agriculture and forestry. They will also have the opportunity to visit our food production greenhouse, called GreenTribe.</p>	<p><b>Ocean explorers: marine robotics in action</b></p> <p>The rendezvous point for this initiative is the Robotics and Autonomous Systems Laboratory at INESC TEC<sup>3</sup>. In the afternoon, students will have the opportunity to explore the laboratory infrastructure dedicated to marine robotics and understand the challenges and current methods of operating in these environments. They will also learn how we are contributing to the advancement of marine robotics for ocean exploration, focusing on reducing risks to humans. They will also have a hands-on experience of teleoperating an underwater robot, using several sensors to perceive the environment.</p>	<p><b>Lights, code and action! Control and experience the power grid</b></p> <p>The rendezvous point for this initiative is the main building of INESC TEC. In the afternoon, students will have the opportunity to visit the x-Energy laboratory at INESC TEC, watch a 3D printing demonstration, and understand how small changes in code to control an LED strip can affect the lighting.</p>
2 p.m. – 5 p.m.			

<sup>1</sup> The iilab is located in the PORTIC building (Porto Innovation Center), at [Rua Arquitecto Lobão Vital 172, 4200-374 Porto](#)

<sup>2</sup> The main building of INESC TEC is part of the FEUP Campus, at Rua Dr. Roberto Frias (Porto) The initiative itself will take place at INESC TEC Laboratory of Robotics and IoT for Smart Precision Agriculture and Forestry (TRIBE), which is located at FEUP's premises.

<sup>3</sup> INESC TEC Robotics and Autonomous Systems Laboratory is located at FEUP, room I-108.