

PHD POSITION FOR IMAGE PROCESSING & COMPUTER VISION **ENGINEER/SCIENTIST/SPECIALIST**

Pro-Drone (www.pro-drone.eu) is a tech start-up that has developed an **end-to-end autonomous solution for the inspection of wind turbine blades**. Our Data Processing team is responsible for handling large amounts of high resolution images collected by our autonomous drones and transforming them into easy to analyse and actionable data to be delivered to our clients via our dedicated cloud platform. We are working with state-of-the-art technologies in **image recognition & processing**, deep learning and computer vision to achieve unique and unparalleled results. This PhD program, financed by the leading European renewable energy network Innoenergy (www.innoenergy.com), is privileged in the sense that it will take place within a tech start-up while being fully supervised and supported academically by IST (Instituto Superior Técnico, Universidade de Lisboa).

As an Image Processing & Computer Vision Engineer/Scientist at Pro-Drone you will:

- Research, address and solve difficult and exciting challenges in image recognition, automated image processing, classification, transformation and reconstruction.
- Design, implement and deploy machine-learning strategies to train algorithms for automatic identification and classification of features in collected images.
- Develop and build on top of the existing Pro-Drone's core image processing workflow/pipeline.
- Analyze, develop, test and debug code in Python and C++.
- Be aware of latest developments in image processing, computer vision and related fields, and implement new solutions as they become available and required.

This is a challenge for you if you:

- Are motivated to create world-class image processing products and solutions in a timely and professional manner.
- Are up to speed with latest developments in the field and eager to implement them on critical data.
- Enjoy working within a group of highly motivated, young, talented and dynamic individuals all pulling in the same direction and working towards a common goal.
- Are interested in pursuing a sponsored PhD in the image processing & computer vision field.
- Have the ambition to work efficiently in a team, good communication skills, strong work-ethic and a drive for problem solving.

We are a multicultural team with different academic and professional backgrounds. Our team is highly focused on delivering value to our customers and delivering a world leading solution. To achieve this we must push the boundaries of current knowledge and engineer a robust pipeline that can enable us to scale. We work entirely in English and you would join us in our office located in greater **Lisbon, Portugal**.

We are looking for the following skills & qualifications:

- Master's degree in Computer Science, Electrical Engineering, Mechanical Engineering, Applied Mathematics, or related field.
- 2 years of professional experience in image processing, delivering real-world imaging applications.
- Solid experience programming in C++, Python, OpenCV and ROS.

It would be nice if you also had the following:

- Technical/Academic publication record related to image processing.
- Experience in Linux, git, databases, AWS/Azure and related technologies.

IF THIS SOUNDS LIKE A CHALLENGE FOR YOU SEND YOUR CV AND COVER LETTER TO jobs@pro-drone.eu

Deadline for submissions is 30th June 2017