Development of Deep Learning based software for medical imaging analysis

Sycai Technologies is a young biotech startup focused on increasing the detection of early-stage cancer and improving patient's life quality applying AI-based algorithms to medical image tests.

Our first product helps radiologists to detect, localize and classify pancreatic cystic lesions on CT scans. Combining the information of the images and data from the clinical history of the patient it predicts the probability of each lesion to evolve into pancreatic cancer, the 4th leading cause of death by cancer in Europe with a median survival time from diagnosis of 5 months.

The activity is developed in a young and dynamic environment in surrounded by other entrepreneurs in a startups incubator in the center of Barcelona

The candidate will:

- The development of a deep learning framework for pixelwise labelling, automatic training and illustration of the results of multiple abdominal organs in CT scans and MRIs.
- The development of an own low-latency deep neural network for semantic segmentation of multiple classes improving results from typical architectures such as fully convolutional networks or U-Nets.
- Statistical prediction model of the evolution in time from detected classes.
- Technical documentation : software architecture, components low level design…

The candidate should have:

- Degree or Master in Telecomunicacions engineer, Informatics, biomedicine, bioengineering, physic, mathematics or similar
- Proven experience in development of computer visión algorithms
- Experience processing medical imaging with AI technologies and cloud desired
- Proven experience with Tensorflow, Caffe, Pytorch or similar and Python or R. Experience with C y C++ desired
- Independent and proactive profile, with tendency to look for solutions autonomously

What do we offer:

- Young, open innovative and dynamic environment in the center of Barcelona
- Flexible work-life balance, balancing working hours and home office.
- Growing together: we are an early stage company with a multidisciplinary team.
- Equal employment opportunity: we proudly pursue a diverse workforce and we do not make any hiring or employment decisions that could be discriminatory in any way.
- Permanente contract (with 6 months trial time)
- First salary 20.000 – 25.000€