



ANNOUNCEMENT OF VACANCY FOR Ph.D. SCHOLARSHIP

CODI, Comércio Design Industrial, Lda., is a technology-based company dedicated to the conception and development of digital 3D and physical models. Founded in 1995, CODI was pioneer in Portugal in additive manufacturing and today is a leading company in this field, providing solutions with different technologies to several economic sectors, e.g. manufacturing, health, education and automotive. Always focusing on innovation and excellency, CODI provides CAD/CAM/CAE solutions and Design, R&D, Reverse Engineering, Fast Prototyping, and PLM services. Regarding R&D activities CODI has launched products like Spark, EyeSpeak and Wondercover. In 2010 CODI was integrated in ínCentea Group, which renders services in ICT, Marketing and Innovation, Business Consulting and Product Engineering. CODI's head-office is located in Leiria, a region in the centre of Portugal with easy access to the coast (Nazaré is only 30 kilometres away), near Fátima and 145 kilometres away from the capital Lisbon.

Vacancy Details

Post Title: Programmer/Software Engineer.

Job Type: Full time, Doctoral (Ph.D.) scholarship.

Duration: 4 years.

Salary: 1.800€.

Location: Leiria, Portugal.

Closing date:

Description

This candidate will analyse, design, develop, test and document software solutions, in the scope of an ongoing company internal R&D project in the field of additive manufacturing of orthoses (an externally applied device used to modify the structural and functional characteristics of the neuromuscular and skeletal system, <https://en.wikipedia.org/wiki/Orthotics>). This highly innovating project is one of the priorities for CODI's product strategy in the coming years. The position requires excellent technical, troubleshooting and communication skills.

The academic project to be defined for the PhD will be developed in conjunction with the candidate and the academic entity that will grant the PhD title.

What You'll Be Doing

The candidate

- designs, programs, tests, implements, documents and maintains computing applications, relating, mainly with Multi View Image Acquisition, Camera Calibration and 3D Reconstruction, Stereo Correspondence and Mesh Processing Framework;
- writes specification for programs of moderate to high complexity;
- creates appropriate documentation in work assignments such as program code and technical documentation;
- identifies and resolves programming or application problems;
- remains abreast of industry technical trends and new development to maintain current skills and remain current with industry standards.

About You

- Master degree in Computer Science, Software Engineering, Computer Engineering or related is required.
- Demonstrated experience to code software following established programming standards and conventions.
- Proficiency in C/C++, PCL - Point Cloud Library and OpenCV.
- Working or academic experience within the area of 3D software, computer graphics and computational geometry.
- Effective verbal and written communication skills. Ability to effectively work with a variety of different levels of the organization. Ability to express technical terms to non-technical audience.
- Strong analytical and problem solving skills for design, creation and testing of programs.
- Innovative problem solver.
- Ability to perform effectively with a minimum of supervision.

Why You Might Want To Work With Us

- Moving to Leiria and benefiting from the beautiful weather, food and coast.
- Participation in challenging research projects.
- A great working atmosphere based on teamwork and cooperation.

Submission of applications

Qualified candidates may submit their application, including a complete Curriculum Vitae via e-mail to Jurgen Bund (jb@graphicsmedia.net). Kindly indicate "PhD position at CODI" in the subject line when applying by email.