



JOB OFFER – COMPUTER VISION SPECIALIST

Summary of the role

The successful candidate will work on international research and technology transfer projects dealing with natural and technological risks, with the specific role of:

- Applying computer vision and artificial intelligence techniques to the recognition and treatment of visible and infrared images of forest and industrial fire flames and smoke.

Education

MSc/MEng studies on computer vision, computer science, vision and robotics or MEng studies in similar fields.

Knowledge and skills

The following skills will be appreciated:

- Segmentation techniques: threshold methods, clustering based methods, edge based methods, active contour models, region growing methods, watershed based methods, etc.
- Image recognition and registration: Mapping, stereovision, visual perception and transformation models, spatial and frequency domain methods, etc.
- Artificial intelligence: machine learning, deep learning (convolutional neural networks, recurrent neural networks, Boltzmann, gradient, etc.).
- Languages: Python, Matlab, C++.

Personal attributes

- Analytical and problem-solving skills with a proactive approach.
- Self-learning skills.
- Positive attitude towards working in a R+D international environment.
- Communication skills, demonstrated both oral and published written (English and Spanish).
- Interpersonal skills.

Salary and hiring

Remuneration to be established based on the degree and experience. Immediate hiring.

Information and application

Please apply by sending an email to Prof. Eulàlia Planas (eulalia.planas@upc.edu) and to Prof. Elsa Pastor (elsa.pastor@upc.edu). Please include a detailed CV along with a letter of application.



Centre d'Estudis del Risc Tecnològic
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About CERTEC and UPC

The Universitat Politècnica de Catalunya · BarcelonaTech (UPC) www.upc.edu is a public institution dedicated to higher education and research, specialised in the fields of engineering, architecture and science. The activity that goes on at UPC campuses and schools has made the University a benchmark institution. The University harnesses the potential of basic and applied research, and transfers technology and knowledge to society. These actions make the UPC—in partnership with industry—an agent and driver of economic and social change. The UPC puts its scientific and technological infrastructure at the service of research groups and centres, researchers and students, professionals, companies and institutions.

The successful candidate will work at CERTEC (Center for Technological Risk studies), at the Chemical Engineering Department of UPC, in Barcelona. CERTEC is an organization whose objectives are research and education in the various fields of risk and safety. We develop educational, research and technology transfer programs, for the public and private sector, both at local and international level. The group exists of an enthusiastic, diverse and creative team, including scientific tenured staff members (full and associate professors), PhD and MSc candidates and undergraduate students. For further information about working at CERTEC, take a look at www.certec.upc.edu

CERTEC is located at the I Building of the new UPC Diagonal-Besòs Campus (CBD). With its School of Engineering ([Barcelona East School of Engineering, EEBE](#)) and its research and technology transfer groups, CBD fosters a university model based on the promotion of research and innovation focused on the productive sector. CBD's main objective is to become a backbone to boost economic activity in those areas of knowledge and productive sectors that are strategic for Barcelona and Catalonia.

Barcelona, November 30th 2020