

Currently hiring:

PHD POSITION IN COLOR AND IMAGE PROCESSING

Océ, a Canon Group division, is a major player in Wide Format, Commercial Printing and Business Services. Present within 80 countries all over the world, Océ employs some 20,000 people.

The French R&D Centre - Océ Print Logic Technologies (Océ PLT) - creates and develops, with the other R&D centres worldwide, high-technology products in the domains of production (printers), reproduction (scanners, copiers), print management (workflow solution and applications) and documents processing.

Océ PLT located in Paris, FRANCE is currently hiring a research engineer in image processing for its Business Unit "Wide format printing" (see <http://global.oce.com/products/wideformat>).

Colour Printing 7.0: Next Generation Multi-Channel Printing (CP7.0):

The recruited researcher will work in a high-level international research environment and in close collaboration with other researchers from the CP7.0 network. As part of their 36 months contract, each researcher will spend 5-6 months in secondments to another academic project partner. The researcher is expected to enrol in a PhD program, and will also participate in a rich program of organized research training activities, enabling them for a future career as printing scientists and innovators who can assume scientific and technological leadership in the European printing industry.

For further information about the EU project, see <http://www.cp70.org>.

PhD Position:

This research project is related to the improvement of the quality of printed documents using multichannel digital printing. Multichannel printing can be defined as any technology that uses more channels than CMYK inks, with the goal of raising print quality above what is possible with CMYK printing. We would like to thoroughly assess the benefits and drawbacks of using multichannel printing systems.

In a first step, we will assess the variety of channels that can be used in addition to CMYK inks in digital printing. We will then define image quality attributes relevant for multi-channel reproduction. We will then study the benefits of adding these channels to our CMYK printing systems, focusing both on quality and on new market opportunities. Unresolved issues and relevant aspects will be investigated. The research will be focused on inventing new algorithms. We will propose and develop innovative applications based on a scientific approach that lead to a significant improvement of print quality and opens-up new markets.

The proposed multichannel workflows will be expected to be compatible with our controllers and with the ICC, as well as create the best possible printed reproductions.

A comprehensive quality assessment process for multichannel printing systems will also be proposed, in which a comparison of the quality of multichannels and CMYK printouts will be conducted.

Education and Experience:

- Engineer or Master degree, specialized in image or signal processing, with an outstanding academic record.
- C/C++, Matlab
- Image processing and color science
- Fluent in written and oral English (international teams)

Essential skills:

- Highly motivated
- Good communication and presentation skills, be eager to disseminate research results through publications and presentations at international conferences and seminars.
- Strong ability to synthesize, curious
- Enjoys working in a team.

Eligibility regulations:

In accordance to the eligibility regulations for Marie Curie ITNs imposed by the EU, the ESRs to be appointed must not have resided or carried out their main activity in the host organization's country (FR) for more than 12 months in the 3 years immediately prior to the appointment date. Short stays such as holidays are not taken into account.

In addition, applicants for the Early Stage Researcher positions should fulfill the following conditions:

- Must have not yet been awarded a doctoral degree,
- Must be, at the time of recruitment, in the first four years (full time equivalent) of their research careers, measured from the date they obtained the degree which would formally entitle them to embark on a doctorate,
- Should hold a good postgraduate degree in Computer Science, Electrical Engineering, Printing Science, Colour Imaging, or other relevant field.

We offer:

At Océ R&D, we provide a supportive and international working environment and a range of development challenges and opportunities. We also offer a competitive salary package and fringe benefits.

Interested candidates should send a cover letter summarizing their research background and interest in the position, CV, and contact information of two potential referees.

Thank you for taking the time and effort to apply for this role to Nicolas Bonnier, Scientist, nicolas.bonnier@oce.com or Monika AMELIE, HR Manager, oct-recrutement@oce.com .