



EUROPEAN
RESEARCH
CENTER

Research Engineer | DSP for Optical Communications

Huawei Paris Research Centre

The **Optical Communication Technology Lab** at **Huawei's Paris Research Center** is seeking strong candidates for permanent research positions in digital signal processing (DSP) algorithms for coherent optical communications. This is a unique opportunity to join a world-class, multi-disciplinary laboratory, whose mission is to carry out cutting-edge R&D on ultra-high capacity long-haul transmission systems.

Working as part of the DSP team, you will be focused on research topics that may include: Calibration and compensation of component impairments; design of advanced modulation formats; novel and low-power demodulation algorithms; fiber nonlinearity compensation strategies; mitigation of cascaded in-line filtering effects and polarization-dependent loss; application of machine-learning methods in coherent systems and DSP; link impairment monitoring.

The research will be conducted in collaboration with teams spanning across multiple international Huawei sites.

Main responsibilities:

- Come up with novel concepts and provide full solutions for Huawei's coherent ASICs;
- validate algorithms via simulations and experiments;
- interact with other Huawei teams, product line engineers and managers, to carry out joint projects, gather specifications and requirements, and communicate results;
- generate intellectual property and file patents;
- create and maintain strong collaborative associations with university-based researchers;
- contribute to the creative and innovative atmosphere at the Huawei Paris Research Centre;
- publish in top journals and conferences.

Qualifications:

- Recent PhD graduate in optical communications and DSP.
- Industrial experience is highly desired.
- Strong background in DSP algorithms, digital communications and fiber transmission theory.
- Proven research track record with publications in high-impact optical journals and conferences.
- Excellent programming skills; expert in Python (preferred) and/or MATLAB, C/C++ is a plus.
- Laboratory experience is a plus.
- English language spoken/written fluency and good communication skills.
- Ability to conduct independent research while also contributing to team-oriented projects.

Interested?

Please send your application by email to:

stefanos.dris@huawei.com

About Huawei:

Huawei's vision is to enrich life through communication. We are a fast growing, leading global ICT solutions provider. With our three business units Carrier, Enterprise and Consumer, we offer network infrastructure, cloud computing solutions and devices such as smart phones and tablet PCs.

Paris Research Centre (PRC) performs strategic research and cutting edge development for Huawei.

Join us for Building a Better Connected World.

Huawei Technologies
Paris Research Centre

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