

## Ph.D. position at Compiègne University of Technology, France

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### Chemical sensors based on molecularly imprinted polymers and holographic films

**1 Ph.D. position** (three years, starting as soon as possible) is currently available at the Department of Bioengineering, Compiègne University of Technology, France.

The position is based in the group of **Professor Karsten Haupt**. The research activities of this group focus on the development of biomimetic materials and synthetic receptors. In particular, part of the work is on the design and synthesis of **molecularly imprinted polymers (MIPs)** in the form of **nanostructured materials and nanocomposites**, using controlled/living radical polymerisation, and their use in chemical sensors, biosensors and biochips (antibody mimics), and as selective separation materials. The group is currently a member of the Marie Curie Research Training Network “**Nanomaterials for Application in Sensors, Catalysis and Emerging Technologies**” (NASCENT) funded by the European Union (<http://www.nascent.qmul.ac.uk/>). The successful applicant will be able to fully benefit of the research and training events organised within the network (Summer schools, meetings, conferences, visits to other network partners).

The research project of the thesis is based on a collaboration with the **Department of General Photochemistry, University of Mulhouse, France** (Dr. Olivier Soppera), and with the **University of East Anglia, School of Chemical Sciences and Pharmacy, Norwich, UK** (Dr. Andrew Mayes).

The project is funded by the National Research Council of France (ANR).

#### Expertise sought

Applicants should have a background in polymer or materials chemistry, or in organic chemistry, and be interested in physicochemical and nanometric characterisation techniques. Applicants should have a good practise of English (French courses are offered on-site). They should have gained a master degree or equivalent entitling to embark on doctoral studies.

#### Benefits offered

The Ph.D. student will be offered an employment contract with full social benefits. The net salary will be between 1300 and 1400 €/month, with the possibility of additional 250 €/ month by doing in parallel a consultancy project for industry.

#### Location

The former Imperial city of Compiègne is conveniently located in the France's Picardy region, its limits being drawn by a large forest and by the river Oise. Paris can be easily reached by express train (40 min).

#### Contact

Interested candidates should send their application letter, a CV, and the names of two referees, by e-mail to:

**Prof. Karsten Haupt**  
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