Proposal of Post-Doctoral position

The laboratory PIMM located at ENSAM in Paris is offering a **Post-Doctoral position** in **Polymer Science/Organic Chemistry** for research activities in the European research project **TeaM Cables**. The contract will be for a fixed term of 12 months.

The Post-Doct engineer will be in charge of the **characterization of the microstructure and gas transport properties of thermally and radiochemically aged XLPE** aimed to electrical cable insulation in nuclear power plants. This study will have to meet several objectives, in particular:

- Analysis of the consequences of oxidation on the crystalline morphology;
- Analysis of the impact of crystallinity changes on gas transport properties;
- Determination structure/property relationships.

The most original results will be subjected to publications.

In addition to ENSAM, the European project TeaM Cables includes several academic partners such as: UMA (France), IZFP (Germany) and UNIBO (Italy), and industrial R&D teams such as: UJV (Czech Republic), VTT (Finland), CEA, EDF, IRSN and NEXANS (France), AREVA (Germany) and INCT (Poland). Meetings will be held periodically to present the progress of the research works to all partners. Travels will take place to the different partners to perform additional and complementary experiments if necessary.

The Post-Doc engineer will have a solid scientific background in polymer science and chemistry. The knowledge of common experimental tools such as: X-ray diffraction, DSC, SEM and gas permeation, will be greatly appreciated.

Please send your CV, name, postal and e-mail addresses, and statements of previous research and future research plans including career goals to:

Dr Sebastien Roland (sebastien.roland@ensam.eu)

and Prof. Xavier Colin (xavier.colin@ensam.eu)