



## Post-doc Position



### Numerical and experimental study of the behavior of ophthalmic lens during cutting operation

The Polymers and Composites Technology & Mechanical Engineering Department of the Ecole des Mines de Douai (France) and Essilor International Company are currently offering a postdoctoral fellow position aiming at studying the behavior of lens during cutting.

The objective is to develop a predictive numerical model of the dynamic behavior of an ophthalmic lens during cutting operation. This model should help to highlight the influence of various parameters (vibration, geometry of the lens, cutting parameters such as effort and shape of the cut ...) on the occurrence of damage to the lens. This numerical study will be validated using experimental results obtained on a specific test bench.

**Keywords :** Finite element method, tooling, cracking, thin layer, polymer material

**Profile :**

Successful candidate for this position should have a PhD in mechanical engineering as well as a strong background in numerical simulations (remeshing technique, ...). Programming expertise and experience with high performance computing on Abaqus software are required.

**Conditions :**

The appointment is for 12 months, starting as soon as possible (January 2012). The net salary offered is 2150 €/month.

Interested candidates should submit curriculum vitae, a cover letter, a statement of research activities and a publications list to:

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