

## **Mg-3**

### **Specifications for CROSSCOURT Software**

Supply of "Software for Cross Correlation Based High Resolution EBSD analysis of stress and strain" conforming to the following specifications: The software should

1. Accept file formats from BRUKER, EDAX and OXFORD EBSD machines
2. Employ the mathematical concept of cross correlation functions for analysing the patterns
3. Calculate local strain maps upto a resolution of 1 part in 10,000
4. Calculate High Resolution Kernel Average Misorientation map with an accuracy of 1/100th of a degree
5. Calculate local residual "elastic" stress maps
6. Have the remapping function to separate out rotations in plastically deformed samples
7. Calculate the positive and negative GND density maps
8. Work on multiprocessor workstations
9. Have been used on wide range of material systems with FCC, BCC and HCP crystal structures
10. Have been used or in use by researchers in multiple countries