

## ***Xstream Systems*** Job Description

**JOB TITLE:** Senior Scientist

**LEVEL:** TBD

**REPORTS TO:** Principal Scientist

**DATE:** 01/29/09

**JOB PURPOSE:** Assist in the development of existing and new XRD-based products. Research innovative X-ray diffraction (XRD) hardware and applications. Helps in the development XStream Systems signature library databases. Interpret electronic X-ray diffraction data. Helps in the installation of systems in customer sites.

### **DUTIES AND RESPONSIBILITIES:**

Assist in the development of existing and new XRD-based products.

Research new and innovative X-ray diffraction (XRD) hardware and applications.

Helps develop XStream Systems signature library databases and methodologies.

Interpret electronic x-ray diffraction data in order to determine data quality, assessing criteria such as noise level, aberrations, and non-physical results.

Some travel required to assist at customer installation sites.

**MINIMUM QUALIFICATIONS:** Master's Degree in Materials Science, Chemistry, Physics, Geology or related area with five or more years of experience required; advanced degree preferred. Knowledge of X-ray diffraction required; knowledge of EDXRD helpful. Experience designing and configuring diffraction equipment also desired. MS Office and Database skills necessary. SQL, C Programming language, and statistics skills helpful.