



## **Job Opportunity: Analytical Chemist Experienced in Chemical Analysis of Refractory, Geologic or Earth Materials**

Vesuvius USA, the world leader in ceramics and refractories related to the molten steel industry, currently employing over 10,000 people and has 70 manufacturing plants in 40 countries throughout the world delivering “best in class” service to its customers. We are currently seeking an Analytical Chemist to join our diverse team of researchers working at our Bettsville, OH facility.

### **Position Overview**

The Chemist will manage the chemistry laboratory and will determine compositions of refractory samples using analytical equipment such as XRF, ICP, a C-S analyser, and traditional wet chemistry. Additionally, the chemist will work closely with engineers, mineralogists, and management to develop new methods of analysis of refractory materials. The chemist will supervise technicians, be responsible for calibrating analytical instruments as well as maintaining a safe working environment in the laboratory.

### **Work Environment**

The Vesuvius R&D Advanced Refractories Laboratory in Bettsville, OH, is the Global Center of Excellence for refractory formulations and product development for the molten metals industry. We are a diverse group of approximately 30 employees focussed on research & development in a productive, relaxed atmosphere. Although, Bettsville is located in a quiet serene setting, it is a pleasant commute from various communities in and around the Toledo metro area. The analytical chemist will contribute towards the modernization of the chemistry lab along with much of the site’s infrastructure that is being updated. Analytical equipment in the chemistry laboratory includes a new PANalytical XRF with excellent PANalytical support, and an older ICP-AES with support, fusion fluxers, an automated hydraulic pellet press, a LECO C-S analyser, a microwave digester, a HACH UV-Vis spectrophotometer, and a wet chemistry set up. The position offers a comprehensive benefits package and a salary level commensurate with level of skills and experience. Vesuvius is committed to continuing education.

### **Knowledge/Experience/Skills Required**

Coming from a strong analytical background, you will be expected to have:

- The minimum of a Bachelor’s Degree in Chemistry, a Master or PhD degree in chemistry, materials science, or geochemistry is preferred.
- Relevant experience in an analytical chemistry laboratory
- Experience analyzing refractory or geologic materials, or soil samples.
- Extensive experience with modern XRF spectrometers (on fused bead and powder pellets), including substantial knowledge of calibration and standardization, sample preparation techniques, and software such as SuperQ.
- The ability to troubleshoot analytical issues, equipment and software.
- Significant experience with ICP-AES
- Attention to detail, documentation, and safety.

Will only consider applications if candidate has demonstrated experience in bulk analysis of refractory or analogous materials, demonstrated expertise in X-ray fluorescence spectrometry, and demonstrated experience in trouble shooting analytical problems. Experience with analysis of SiC and organic compounds would be a plus.



The ideal candidate will be action-oriented and partner with colleagues through the timely and thorough sharing of reports and information. They will be trustworthy and possess integrity. They will be effective at problem solving and planning tasks, assignments and assistant's duties, and passionate about continuing their technical learning.

Interested applicants may submit resume and salary requirements to **[linda.davis@vesuvius.com](mailto:linda.davis@vesuvius.com)**