



Staff Scientist - XRD Laboratory, Ben-Gurion University of the Negev

The **X-ray Diffractometry Unit** at **Ben-Gurion University of the Negev (BGU)** is seeking a talented, creative, and motivated Staff Scientist to join our team.

Our XRD Unit has grown significantly in the past 3 years and now includes **three state-of-the-art diffractometers**: two Cu-source instruments and one hard X-ray Ag-source instrument. The Ag-source diffractometer supports **pair distribution function (PDF) and Diamond Anvil Cell (DAC) high-pressure measurements**. The Cu-source instruments support **high-temperature in-situ measurements** (up to 1200 °C) and advanced thin-film measurements, including **ultra-fast reciprocal space mapping and pole figure measurements**.

Why Join Us?

The IKI at BGU is a knowledge center dedicated to advancing cutting-edge research in many fields and providing foundational expertise to the research community at BGU and beyond.

- Join a **collaborative, multidisciplinary team** in a supportive and inclusive environment.
- Work with **state-of-the-art XRD, XRF, and micro-CT systems** and contribute to innovative research across a range of fields - from geology and archaeology to materials engineering and nanotechnology.
- Engage in **cross-disciplinary collaborations** with leading scientists and drive deeply impactful discoveries.
- **Develop novel XRD methodologies** for advanced measurements and for the characterization of novel materials and challenging in-situ systems.
- Benefit from **professional growth opportunities**, international networking, and access to advanced research infrastructure.

Key Responsibilities:


- Provide XRD research support for the entire BGU research community as well as external customers from other academic institutions and industry. This includes development and implementation of new techniques for instrumental operation, data acquisition and interpretation.
- Operation of state-of-the-art equipment.
- Training students, from basic to advanced levels, in the use of the equipment.
- Responsibility for maintenance and daily operation of the laboratory.

Requirements:

- Ph.D. in Materials Engineering, Chemistry, Physics or a related field.
- Expertise in X-ray diffraction, powder and thin film characterization, phase determination, quantitative methods, PDF measurement and interpretation, DAC and high-T in-situ measurements, RSM and pole-figure measurements, Rietveld Refinement and whole-pattern fitting
- Experience in XRF and micro-CT is an advantage, but not mandatory



- Academic and technical proficiency in applying sophisticated research instrumentation to solve complex research problems.
- Team player with excellent communication skills and instructional capabilities.
- Ability to multitask and work across diverse research areas employing a variety of characterization techniques.

 **Apply now:** Send your CV and cover letter to forti@bgu.ac.il

 Learn more: <https://iki-labs.bgu.ac.il>